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PERSONAL.

Mr. C. H. Holcomb has been elected President of the recently incorporated Crucible Steel Co.

Mr. Azariah Lincoln has been appointed Professor of Chemistry in the University of Cincinnati.

Mr. J. W. Swan has been elected President of the British Society of Chemical Industry, for the ensuing year.

Mr. Irving J. Morris has been appointed Chief Clerk in the Engineering Department of the State of New York.

Mr. Charles S. Carleton has been appointed Professor of Civil Engineering at Norwich University, at Northfield, Vermont.

Mr. J. H. Pearson has been appointed Chief Engineer of the Beattyville & Cumberland Gap R. R., recently acquired by the Louisville & Atlantic R. R., and will be located at Irvine, Ky.

Mr. A. A. McLeod has resigned as President of the American Railways Co. and it is reported that he will be succeeded by Mr. William F. Harrity, President of the Equitable Trust Co., of Philadelphia, Pa.

Mr. W. W. Follett, M. Am. Soc. C. E., has resigned as Member and Consulting Engineer of the International Boundary Commission on the water boundary between the United States and Mexico. He will be succeeded by Mr. P. D. Cunningham, Assoc. M. Am. Soc. C. E., who is now Chief Engineer of Havana, Cuba. Mr. Follett will remain at El Paso until relieved by his successor.

Mr. William M. Torrance has resigned his position as Assistant Engineer of the Lehigh Division of the Lehigh Valley R. R. and Easton & Amboy R. R., to accept a position in the Bridge Engineering Department of the Chicago & Northwestern Ry., with headquarters at Chicago, Ill. In our issue of July 5 Mr. Torrance's name was misspelled Lorrance, and Eastern & Amboy was given instead of Easton & Amboy.

OBITUARY.

Mr. S. B. Hollingshead, Civil Engineer of the Boston & Montana Co., died of heart failure on July 19, at Butte, Mont.

Mr. Jasper R. Rand, President of the Rand Drill Co., died at his home in Montclair, N. J., on July 18. A brief account of his life will be found in another column.

Mr. Francis H. Tate, a contractor of New York city, committed suicide at Malden, Mass., on July 24. Mr. Tait was 33 years old. The cause of the deed is unknown.

Mr. Edward J. Caley, Civil Engineer, shot himself at Philadelphia, Pa., on July 17. It is supposed he was suffering from temporary insanity, caused by the intense heat. Mr. Caley was 25 years old and was a graduate of the University of Pennsylvania.

Professor J. M. Meneck, Civil and Mining Engineer, was recently lost from a party exploring for copper mines in the desert of Southern Utah, and is supposed to have perished. Prof. Meneck held the degree of Ph.D. from Johns Hopkins University, and was connected with the Smithsonian Institution at Washington, D. C.

ENGINEERING SOCIETIES

COMING GENERAL MEETINGS.

OHIO ELECTRIC LIGHT ASSOCIATION.
Aug. 14 to 16. Annual meeting at Toledo, O. Secy., A. W. Field, Columbus, O.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.
Aug. 16. At Paris. Secy., R. W. Pope, 26 Cortlandt St., New York city.

AMERICAN INSTITUTE OM MINING ENGINEERS.
Aug. 21 to 29. Excursion from Quebec. Secy., R. W. Raymond, P. O. Box 223, 99 John St., New York city.

AMERICAN SOCIETY OF MUNICIPAL IMPROVEMENTS.
Aug. 28 to 31. Annual meeting at Milwaukee, Wis. Secy., D. L. Fulton, Allegheny, Pa.

ASSOCIATION OF EDISON ILLUMINATING COMPANIES.
Sept. 4. Annual meeting at Saratoga Springs, N. Y. Secy., Wilson S. Howell, Newark, N. J.

CENTRAL STATES WATER-WORKS ASSOCIATION.
Sept. 4 to 6. Annual meeting at Columbus, O. Secy., John Fisher, P. O. Box 203, Hamilton, O.

IRON AND STEEL INSTITUTE OF GREAT BRITAIN.
Sept. 10. At Paris, France. Secy., Bennet H. Brough, 28 Victoria St., London, S. W., England.

STREET RAILWAY ASSOCIATION OF THE STATE OF NEW YORK.
Sept. 11 and 12. Fall meeting at Buffalo, N. Y. Secy., Henry A. Robinson, 621 Broadway, New York city.

AMERICAN BOILER MANUFACTURERS' ASSOCIATION.
Sept 18 to 20. Annual meeting at Cincinnati, O. Secy., J. D. Farasey, Cleveland, O.

NATIONAL ASSOCIATION OF MUNICIPAL ELECTRICIANS.
Sept. 25 to 27. Annual meeting at Pittsburg, Pa. Secy., J. W. Aydon, P. O. Box 373, Wilmington, Del.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
July 26.	Sewers,	Baton Rouge, La.	July 12
July 26.	Brick paving,	Findlay, O.	June 21
July 27.	Bridge superstructure,	Logan, Utah	July 12
July 28.	School building,	Washington, D. C.	July 12
July 28.	Lowering suction mains,	Yonkers, N. Y.	July 12
July 28.	Pumping engine,	Yonkers, N. Y.	July 12
	Advertised, Engineering News, July 12.		
July 30.	Rip-rap jetty,	New York, N. Y.	June 28
	Advertised, Eng. News, June 28 to July 19.		
July 30.	Jetty work,	Galveston, Tex.	July 5
July 30.	Hire of dredge,	Galveston, Tex.	July 12
	Advertised, Eng. News, July 12 to 26.		
July 30.	Steel bridges (2),	Clifton Forge, Va.	July 12
July 30.	Pipe sewers.	Rawlins, Wyo.	July 19
	Advertised, Eng. News, July 19 and 26.		
July 30.	Hospital addition,	Newport, R. I.	July 19
July 30.	Wooden bridge,	Woonsocket, R. I.	July 26
	Advertised, Engineering News, July 26.		
July 30.	Gas lighting,	Tiffin, O.	July 26
July 30.	Cement sidewalks,	Smith's Falls, Ont.	July 26
July 30.	Water-works, etc.,	Algonac, Mich.	July 26
July 30.	Electric plant,	Algonac, Mich.	July 26
July 30.	Paving,	Edgewood, Pa.	July 26
July 30.	School building,	Brooklyn, N. Y.	July 26
July 31.	Brick paving,	Waterbury, Conn.	July 26
	Advertised, Engineering News, July 26.		
July 31.	Granolithic sidewalks,	Walkerville, Ont.	July 26
July 31.	Sewer bonds ($55,000),	Bristol, R. I.	July 26
July 31.	Bridge abutments,	Bangor, Me.	July 26
July 31.	Brick sewers,	Ottumwa, Ia.	July 26
July 31.	Brick paving,	Sewickley, Pa.	July 19
July 31.	Hospital buildings,	New Orleans, La.	July 12
July 31.	Paving,	Mingo Junction, O.	July 5
Aug. 1.	Steam plant for W.-wks,	Alexandria, La.	July 12
	Advertised, Eng. News, July 12 and 19.		
Aug. 1.	Electric plant,	Lawrenceburg, Ind.	June 21
	Advertised, Eng. News, June 21 to July 5.		
Aug. 1.	Paving,	Roanoke, Va.	July 12
Aug. 1.	Completing state house,	Columbia, S. C.	July 12
Aug. 1.	Sewers,	Alexandria, La.	July 19
	Advertised, Eng. News, July 19 and 26.		
Aug. 1.	Electric plant,	Orion, Ill.	July 19
Aug. 1.	State house,	Columbia, S. C.	July 19
Aug. 1.	Stable building,	Fort Adams, R. I.	July 19
Aug. 1.	Asphalt paving,	Cortland, N. Y.	July 26
	Advertised, Engineering News, July 26.		
Aug. 1.	School building,	Chattanooga, Tenn.	July 26
Aug. 1.	Sewers,	Sauk City, Wis.	July 26
	Advertised, Engineering News, July 26.		
Aug. 1.	Sewers,	Princeton, Ill.	July 26
	Advertised, Engineering News, July 26.		
Aug. 1.	Stone arch bridge,	Indianapolis, Ind.	July 26
Aug. 1.	Bridge,	Shoemakersville, Pa.	July 26
Aug. 1.	Iron bridge,	Conway, Ark.	July 26
Aug. 1.	Bridge,	Guelph, Ont.	July 26
Aug. 1.	Library building,	McKeesport, Pa.	July 26
Aug. 1.	Street improvements,	Indianapolis, Ind.	July 26
Aug. 2.	Lumber,	New York, N. Y.	July 26
Aug. 2.	Street grading,	North Bergen, N. J.	July 26
Aug. 2.	Bridge,	Ottawa, O.	July 26
Aug. 2.	Bonds,	Arnprior, Ont.	July 19
	Advertised, Eng. News, July 19 and 26.		
Aug. 2.	Water bonds,	Arnprior, Ont.	July 19
	Advertised, Eng. News, July 19 and 26.		
Aug. 2.	Dredging,	Washington, D. C.	July 12
Aug. 2.	County roads,	Toledo, O.	June 28
Aug. 3.	Water-works,	Nunda, Ill.	July 26
Aug. 3.	Improving water-works,	Walden, N. Y.	July 26
	Advertised, Engineering News, July 26.		
Aug. 3.	Improving street,	Spokane, Wash.	July 26
Aug. 4.	Street grading,	Washington, D. C.	July 26
	Advertised, Engineering News, July 26.		
Aug. 4.	Bridge superstructure,	North Adams, Mass.	July 26
	Advertised, Engineering News, July 26.		
Aug. 4.	Reconstructing bridge,	Portland, Ore.	July 26
Aug. 4.	Dredging,	New York, N. Y.	July 26
Aug. 4.	Paving,	Canton, O.	July 19
Aug. 4.	Building turnpikes,	Van Wert, O.	July 19
Aug. 4.	Repairing arsenal,	Philadelphia, Pa.	July 19
Aug. 6.	Bridge,	Natchitoches, La.	June 28
Aug. 6.	High school,	Cleveland, O.	July 5
Aug. 6.	Lock tenders' house,	Cincinnati, O.	July 12
Aug. 6.	Pipe sewers,	Toledo, O.	July 12
Aug. 6.	Paving,	Toledo, O.	July 12
Aug. 6.	Barracks, etc.,	Astoria, Ore.	July 12
Aug. 6.	Pumping engines,	Orange, N. J.	July 19
Aug. 6.	Bridge superstructure,	Chicago, Ill.	July 19
	Advertised, Eng. News, July 19 to Aug. 2.		
Aug. 6.	Brick paving,	Middletown, O.	July 19
Aug. 6.	Penitentiary addition,	Walla Walla, Wash.	July 19
Aug. 6.	Macadam paving,	Paterson, N. J.	July 26
Aug. 6.	Heating plant,	Pittsburg, Pa.	July 26
Aug. 6.	Bridge,	Stevenson, Wash.	July 26
Aug. 6.	Steel highway bridge,	Camden, N. J.	July 26
	Advertised, Eng. News, July 26 and Aug. 2.		
Aug. 6.	Electric plant,	Shakopee, Minn.	July 26
Aug. 6.	Electric lighting,	Ann Arbor, Mich.	July 26
Aug. 7.	Bridge,	Visalia, Cal.	July 26
Aug. 7.	Block paving,	Camden, N. J.	July 26
Aug. 7.	Paving,	Dunkirk, N. Y.	July 26
Aug. 7.	Sweeping machine and carts,	Camden, N. J.	July 26
Aug. 7.	Church building,	Findlay, O.	July 26
Aug. 7.	Steel bridge,	Stockton, Cal.	July 26
Aug. 7.	Naval supplies,	Mare Island, Cal.	July 26
Aug. 7.	Water pipe, castings, etc.,	St. Louis	July 26
Aug. 7.	Stone crusher, etc.,	Brainerd, Minn.	July 26
Aug. 7.	Light house,	Norwalk Harbor, Conn.	July 19
	Advertised, Eng. News, July 19 to Aug. 2.		
Aug. 7.	Highway bridge,	Milwaukee, Wis.	July 19
Aug. 7.	Water-works,	Pierson, Ia.	July 19
Aug. 7.	Building, etc.,	Ellis Island, N. Y. H.	July 19
Aug. 7.	Arch culvert,	Cincinnati, O.	July 12
Aug. 7.	Iron bridges (3),	Vincennes, Ind.	June 21
Aug. 7.	Heating plant,	Vincennes, Ind.	June 21
Aug. 8.	Dredging,	Chicago, Ill.	June 14
Aug. 8.	Steel bridge,	Russellville, Mo.	July 12
Aug. 8.	Bridge,	Chicago, Ill.	July 19
Aug. 9.	Bridge approaches,	New York, N. Y.	July 12
	Advertised, Eng. News July 12 to Aug. 2.		
Aug. 9.	Asylum buildings,	Decatur, Ind.	June 14
Aug. 9.	Supplies,	Tompkinsville (S. I.), N. Y.	July 19
	Advertised, Eng. News, July 19 and 26.		
Aug. 9.	Brick paving,	Jacksonville, Fla.	July 19
Aug. 9.	Addition to school,	Los Angeles, Cal.	July 26
Aug. 9.	Electric plant,	New Iberia, La.	July 26
	Advertised, Eng. News, July 26 and Aug. 2.		
Aug. 9.	Bridge, (Howe truss),	Albany, Ore.	July 26
Aug. 9.	Water-works,	New Iberia, La.	July 26
	Advertised, Engineering News, July 26.		
Aug. 10.	Pipe work,	Wapakoneta, O.	July 26
Aug. 10.	Hotel building,	Lead, S. Dak.	July 26
Aug. 10.	Repairing vessel,	Washington, D. C.	July 26
Aug. 10.	Steel water pipe (42-in.),	Marquette, Mich.	July 26
Aug. 10.	Combination bridge,	Charlottetown, P.E.I.	July 26
Aug. 10.	Electric plant,	Lakewood, O.	July 19
Aug. 10.	Armor for vessels,	Washington, D.C.	June 28
Aug. 11.	Dredging,	Chatham Harbor, Mass.	July 12
	Advertised, Eng. News, July 12 to Aug. 2.		
Aug. 11.	Street grading,	Washington, D. C.	July 26
	Advertised, Engineering News, July 26.		
Aug. 13.	Bridges (10),	Wabash, Ind.	July 19
Aug. 13.	Dormitory, etc.,	Agricultural College, Miss.	July 19
Aug. 13.	Sewers,	Lakewood, O.	July 26
Aug. 13.	Sewage disposal plant,	Lakewood, O.	July 26
Aug. 13.	Water pipe (9 miles),	Lakewood, O.	July 26
Aug. 14.	Coaling plant,	Frenchmen's Bay, Me.	July 19
Aug. 14.	Hall of records,	Modesto, Cal.	July 19
Aug. 14.	Excavation, etc.,	New York, N. Y.	July 12
	Advertised, Eng. News, July 12 to Aug. 2.		
Aug. 14.	Sewer conduit, etc.,	Chicago, Ill.	July 26
Aug. 14.	Street improvements,	Chicago, Ill.	July 26
Aug. 15.	Bridge (wooden?),	Fairhaven, Wash.	July 26
Aug. 15.	Wharf, etc.,	Fort Caswell, N. C.	July 26
Aug. 15.	Monuments,	Pittsburg Landing, Tenn.	July 26
Aug. 15.	Pipe sewers,	Elizabeth, N. J.	July 26
Aug. 15.	School house,	Bristol, R. I.	July 26
Aug. 15.	Bridge (plate-girder),	South Bend, Ind.	July 26
Aug. 15.	Bridge,	Jacksonville, Fla.	July 26
Aug. 16.	Relining reservoir, etc.,	Steelton, Pa.	July 26
	Advertised, Eng. News, July 26 and Aug. 2.		
Aug. 16.	Paving,	Gallipolis, O.	July 26
Aug. 16.	Dredging,	Portsmouth, N. H.	July 19
	Advertised, Eng. News, July 19 to Aug. 9.		
Aug. 16.	Hospital buildings (2),	Athens, O.	July 19
Aug. 16.	Paving,	Findlay, O.	July 19
Aug. 16.	Valves, water pipe, etc.,	Washington, D.C.	July 19
	Advertised, Eng. News, July 19 and 26.		
Aug. 18.	Jail building,	Bennettsville, S. C.	July 12
Aug. 18.	Bridge,	San Andreas, Cal.	July 26
Aug. 20.	Pipe sewers,	Greenwich, Conn.	July 26
	Advertised, Eng. News, July 26 to Aug. 16.		
Aug. 20.	Pipe sewers,	Dayton, O.	July 26
Aug. 20.	Electric lighting,	Oskaloosa, Ia.	July 26
Aug. 21.	Court house,	Blue Ridge, Ga.	July 5
Aug. 22.	Cement,	Little Rock, Ark.	July 26
	Advertised, Eng. News, July 26 to Aug. 16.		
Aug. 23.	Lock, etc.,	Charleston, S. C.	July 26
	Advertised, Eng. News, July 26 to Aug. 16.		
Aug. 24.	Sea wall,	West Point, N. Y.	July 26
	Advertised, Eng. News, July 26 to Aug. 16.		
Sept. 1.	Bridge,	Sydney, New South Wales	Mar. 15
	Advertised, Engineering News, March 15.		
Sept. 1.	Pumping engine, etc.,	Indianapolis, Ind.	July 12
Sept. 11.	Pumping engines (2),	Detroit, Mich.	July 26
	Advertised, Engineering News, July 26.		
Sept. 12.	Dredging,	Chicago, Ill.	July 19
Nov. 15.	Battleships,	Washington, D. C.	July 26
No date.	Electric plant,	Jackson, La.	July 26
"	Paving,	Dunkirk, N. Y.	July 26
	Advertised, Eng. News, July 26 and Aug. 2.		
"	Iron bridge,	Courtland, Ala.	July 26

RAILWAYS.

BIRMINGHAM, SELMA & NEW ORLEANS.—Surveys are reported to have been completed for a distance of four miles on the road which will run from Martins Station, Ala., to Thomasville, about 15 miles. Grading is now under way on the part surveyed. Norman Webb, Supt., Selma, Ala.

BURLINGTON, CEDAR RAPIDS & NORTHERN—Garrett Davis, Asst. Ch. Engr., Cedar Rapids, Ia., informs us that the contract for constructing the extension through Albert Lea, Minn., via Owatonna to Faribault, 48 miles, was let July 14, to Donald Grant & Co., Faribault, and work has just been started. All surveys have been made and rights of ways secured.

CANADA.—C. F. Hanington, Engr., Fort Steele, B. C., is reported as stating that a reconnoissance has been completed for the proposed north and south railway, from Sand Creek to Tracy, where a 1% grade will be encountered. Some heavy work will be necessary at Bull River, for about two miles, and at the head of Four-Mile Creek, also at Six-Mile Creek.

CENTRAL ONTARIO.—John D. Evans, Ch. Engr., Trenton, Ont., informs us that the dominion government has granted a subsidy for the proposed line from Bancroft through Mayworth to Whitney, about 41 miles, but nothing further than an exploration of the land has been made, and for the present the date of letting contracts is uncertain.

CHICAGO & NORTHWESTERN.—It is stated that this company is purchasing a right of way from Interior to Mass City and from Ontonagon to Mass City, Ontonagon County, Mich., which will probably mean a 22-mile extension from Interior to secure direct access to the copper district over the Copper Range Ry. C. Palmer, Div. Engr., Escanaba, Mich.

DAKOTA PACIFIC.—Wm. T. Coad, Pres., Rapid City, N. Dak., informs us that contracts for completing the construction of the line from Rapid City, through Scotts Mills, Big Bend, Pactola, Silver City and Mystic, about 40 miles, will be let in about five weeks. Surveys have been completed and rights of way are practically all secured. The road is completed and ready for operation for a distance of eight miles, and the balance of grading work is about 70% finished. Arrangements for the capital are about completed. The company still has $300,000 5% 30-year gold bonds for sale. Wm. M. Wright, Ch. Engr., Rapid City.

DELAWARE & HUDSON.—Plans are reported to have been completed for the proposed extension from Moreau Station to South Glens Falls, N. Y. The construction will be started as soon as the plans are approved by the officers of the International Paper Co., which is interested in the new line. James MacMartin, Asst. Engr., Albany.

FAIRMONT & PITTSBURG SHORT LINE.—Surveys are said to be nearly completed for this line. The road will run from Fairmont, W. Va., to Reevesville, thence to Fairview, thence to Waynesburg, thence to Washington, Pa., and to Pittsburg, making a total length of 90 miles. It is stated that the Carnegie Steel Co., Ltd., Pittsburg, Pa., will control the entire line. Thos. W. Fleming, Pres.

GREAT NORTHERN.—J. D. Mason, Prin. Asst. Engr., St. Paul, Minn., informs us that the line from Stony Brook Junction to a connection with the Hibbing Virginia line, about 46 miles, is now under construction. A. Guthrie & Co., contractors, St. Paul.——Reports from Washington state that the company is now considering the most feasible route into the Republic mining district, to which an extension has been authorized by the directors.

LOUISVILLE & ATLANTIC.—J. H. Pearson, Ch. Engr., Irvine, Ky., writes us as follows concerning the purchase and extension of the Beattyville & Cumberland Gap R. R.: "The new owners of this road have begun the work of extending it on up the Kentucky River to Beattyville, a distance of 35 miles from this point. It is the intention at present of extending it on to a connection with the Norfolk & Western, near the "Breaks of Sandy," about 90 miles. About 18 miles of the 35 have been graded and requires but little work excepting the trestles and bridges, which were not built, to begin the rail laying. We have about 50 men at work now, having only begun last Thursday, and this force will be increased as required. Of the 17 miles unfinished there will be some good work for the contractors when the company is ready to let the work. It includes a solid rock tunnel 450 ft. long and a large amount of trestle work. When the road is finished it will bring into the market a number of fine saw mill sites along the river where the logs can be boomed and will also bring into market the fine yellow poplar and other timbers of this eastern Kentucky section. It will also open up the fine coal fields of that section. We are in the market for first quality 60-lb. relay rails and would be pleased if you would draw your advertisers' attention to this fact. We want 6,200 ft. at once and more, probably 6 miles, within a few weeks. I have been appointed the

chief engineer of the new road and have authority from the president to negotiate for the rails and other supplies needed."

MARINETTE, TOMAHAWK & WESTERN.—Work is reported to have been started on this line east and west of Tomahawk, Wis., on the proposed extension to the east towards Marinette by way of Antigo, and to the west to a junction with the Wisconsin Central Ry. The right of way to Antigo has been secured, and contracts will soon be let for building 15 miles more on that line. N. E. Jeannot, Gen. Supt., Tomahawk, Wis.

MINNESOTA & INTERNATIONAL.—Incorporated in Minnesota, with $100,000 capital stock, to build a road from Bemidji, on the line of the Great Northern Ry., northeast to a point on the international boundary at Rainy Lake. The road will form a continuation of the Brainard & Northern Minnesota line. Chas. S. Mellen, Pres., Northern Pacific Ry., and P. W. Corbett, Asst. Secy., St. Paul, Minn., are incorporators.

MOUNTAIN VALLEY.—A charter was issued to this company in West Virginia, July 5, with $25,000 capital stock, to operate a railway. Andrew McGinley and Philip Maurer, Wheeling, are incorporators.

NEW YORK, NEW HAVEN & HARTFORD.—C. N. Ingersoll, Jr., Ch. Engr., New Haven, Conn., writes us as follows regarding the contemplated improvements at Bridgeport, Conn., which will include four tracking, and the elimination of grade-crossings: "The plans provide for elevating the tracks. This will be done on masonry viaduct, with proper openings, spanned by steel bridges, for the different streets, except along the water front, where the elevated structure is to be of open steel construction, and across the river, which is to be spanned by a four-track steel drawbridge. The plans also provide for a new and commodious passenger station. Only a portion of the work is now under contract, being that portion from the present four-track junction near Fairfield Ave., at the west end, to and including Main St., a distance of about 1½ miles." When the balance of the work may be started Mr. Ingersoll is unable at present to say.

NEW YORK & PENNSYLVANIA.—G. N. Pierce, Ch. Engr., Canisteo, N. Y., informs us that the survey for the five-mile extension from Millport to Shingle House, Pa., has been made and the right of way secured. The grading will probably be done by the company.

NORTH ALABAMA.—The new survey for this line, to be built by the Louisville & Nashville Ry., is said to have been finished. The new survey will allow for a road between 20 and 30 miles in length, with fields for extensions should the occasion demand it. The line will pass through some rough country and will involve considerable heavy work. It is expected that bids will soon be called for. J. M. Falkner, Montgomery, Ala., and W. W. Thompson, Louisville, Ky., are said to be interested.

PENNSYLVANIA R. R.—W. H. Brown, Ch. Engr., Philadelphia, Pa., has let a contract to H. S. Kerbaugh, 613 Harrison Bldg., Philadelphia, for constructing a six-mile extension of the Edensburg & Black Lick Creek R. R., to cost about $200,000, and a contract to Chas. A. Simms & Co., Philadelphia, for two miles of new road on the branch of the Hempfield R. R. to Hermini, Pa. Both pieces of work will be very heavy, and will include grading, mason work and track laying. The roads will be used as coal feeders to the Pennsylvania system.——A preliminary survey is now being made for an extension from Northumberland to Berwick, on the north side of the Susquehanna River, via Bloomsburg and Danville, Pa. It is not determined whether this road will be built.

PHILADELPHIA, WILMINGTON & BALTIMORE.—Arrangements are being made for the construction of a branch siding to connect with the Edgemoor cut-off in Delaware. S. C. Long, Asst. Engr., Wilmington, Del.

PITTSBURG, CINCINNATI, CHICAGO & ST. LOUIS.—It is stated that the roadbed on the Chartiers Valley branch is being widened for a second track. T. H. Johnson, Ch. Engr., Pittsburg, Pa.

PITTSBURG, CONNELLSVILLE & WHEELING.—Edgar A. Holmes, Gen. Mgr., Moundsville, W. Va., is reported to have received bids from 18 firms, for the construction of 20 miles of this road, reported in our issues of July 5 and 12. The work will be let in five sections and the contracts will probably be awarded as follows: J. P. McDonald & Co., 35 Nassau St., N. Y.; A. M. Dolley & Co., Pittsburg; Chas. A. Simms & Co., 15th and Market Sts., Philadelphia; Miller Construction Co., Bellington, W. Va.; James H. Kellett & Son, Philadelphia.

PITTSBURG, SHAWMUT & NORTHERN.—A corps of surveyors of this company were at Shingle House, Pa., on July 26. Their destination was reported as being at the Honeyoye pass, through the Allegheny Mountains, which is nearly 100 ft. lower than where the Erie R. R. crosses. Wm. Barclay Parsons, Ch. Engr., 22 William St., New York.

RIO GRANDE.—Incorporated in Colorado with $2,000,000 capital stock, to construct a road through the Wet Mt. Valley and several other lines, all of which will become a part of the Denver & Rio Grande system. It is said that work will be started at once. E. T. Jeffery and J. B. Andrews, and W. T. Wilson, New York, are interested.

SOUTH BUFFALO TERMINAL.—The construction of this road is to be started at once by Lathrop & Shea, contractors, New Haven, Conn., according to reports. The road will be about six miles in length and double tracked. It is being backed by the Lackawanna Iron & Steel Co., Scranton, Pa.

SUWANNEE & SAN PEDRO.—R. N. Ellis, Jr., Ch. Engr., Mayo, Fla., informs us that 15 miles of this road have been graded and 45-lb. rails are now being laid. All the surveys have been made and the rights of way secured from Live Oak through Wilworth, Mayo to Stevensville and a branch line to Perry, making a total length of 105 miles. A steel drawbridge, to have a fixed span 100 ft. long and a draw span 150 ft. in length will be built over the Suwannee River. The Drew Lumber Co. are the contractors for the road. Frank Drew, Gen. Mgr., Mayo.

TIFTON, THOMASVILLE & GULF.—An application will be made for a charter to continue this road to the Gulf of Mexico, via Tallahassee, Fla. S. Z. Ruff, Ch. Engr., Moultrie, Ga.

VIRGINIA.—N. B. Dotson, Wise, Va., writes us that the proposed railway in Wise and Dickerson counties will be over 20 miles in length and will open up large tracts of coke and coal lands. Connections will probably be made with the Norfolk & Western road. Mr. Dotson states that it is expected to begin the construction soon.

WASHINGTON & POTOMAC.—Chas. B. Collier, Philadelphia, Pa., has purchased this road. It is stated that Mr. Collier is acting for a syndicate of bondholders, who propose to reorganize the company and complete the road from Washington City to Point Lookout, with a branch to Esperanza on Drum Bay, Md.

STREET AND ELECTRIC RAILWAYS.

PENOBSCOT, ME.—It is stated that the work of changing the Penobscot Central R. R. into a trolley system will begin at once and will be completed within 90 days. Stone & Webster, Consult. Engrs., 4 Post Office Bldg., Boston, Mass.

AGAWAM, MASS.—The Springfield St. Ry. has been awarded a franchise by this town for its proposed line from Springfield to the Connecticut state line. The company proposes to have the line constructed by winter. J. Olmstead, Pres., Springfield.

MILFORD, MASS.—Local papers state that the Milford, Holliston & Framingham St. Ry. has petitioned the selectmen for permission to make an extension of the Cedar St. line.

WESTFIELD, MASS.—J. N. Bryan, Pres., is reported as stating that there is no intention of building the extension to Lozierville at present, but the line will doubtless eventually be constructed.

WORCESTER, MASS.—A corporation is being formed by local capitalists, to be known as the Worcester & Middlesex County St. Ry. Co., for the purpose of constructing and operating a street railway from Milford, Hopkinton, Woodville to the Westboro line. The capital stock will be $100,000. The road will be standard gage, about 10 miles in length. J. H. Cunningham, Chelsea; Alex De Witt, Worcester, and Harrison C. Kingman, South Framingham, are interested.——It is stated that Worcester will be connected with Southbridge by electric railway, over the tracks of the Worcester & Webster to North Oxford, and thence through Oxford, Charlton, Charlton City, to South bridge. The new road will be a distinct corporation, with a capital stock of $200,000. The new line will be about 11 miles long, making the distance from Worcester to Southbridge 19 miles, and will be constructed with 72-lb. rails. The cars will be equipped with four 50-HP. motors each. Incorporation will be secured immediately. W. A. Bailey, Worcester; Fred. Thayer, Oxford, and Edgar S. Hill, Webster, are interested.

BRIDGEPORT, CONN.—E. C. Crocker, Secy, and Ch. Engr. Moodus & East Hampton Ry. Co., informs us that no contracts have actually been made for constructing the company's 10-mile line, which will extend through Chatham, Haddam and East Haddam. Surveys have been completed and rights of way obtained.

DANBURY, CONN.—The Citizens' Steamboat Line, the Peekskill Traction Co., and the Danbury & Bethel St. Ry. Co. are interested in a scheme to build a trolley line from Peekskill, through Danbury, to Long Island Sound, at Bridgeport or Norwalk. A meeting of the officers of the three companies will soon be held, when an organization for the purpose will probably be made. The proposed line will pass through 70 miles of farming country.

ALEXANDRIA BAY, N. Y.—It is stated that the St. Lawrence International Electric Light Co. has decided to build a trolley line from Alexandria Bay to Redwood. The survey has been made. C. G. Wells, Secy., Syracuse.

AMSTERDAM, N. Y.—The Fonda, Johnstown & Gloversville R. R. Co. has purchased the Amsterdam Electric St. Ry., and its lighting and power plant. The railroad will be equipped in first-class style, and will be extended to Rockton and Hagaman, a distance of four miles.

FISHKILL, N. Y.—W. F. Weston informs us that the preliminary survey for the incline surface elevator to the top of the Fishkill Mountains, about 2,100 ft. high, has been made, and the ground bought. The road will probably be contracted for this fall. Estimates have already been submitted by the Otis Elevator Co., 71 Broadway, New York. The capital stock is not entirely secured. Jesse B. Pattee, Pres., Manchester, N. H.

MAMARONECK, N. Y.—The road commissioners have granted a franchise to the Larchmont Horse Ry. for an electric road between Larchmont and Mamaroneck and between Larchmont and New Rochelle. C. A. Singer, Pres., Larchmont.

OGDENSBURG, N. Y.—An extension of the Ogdensburg St. Ry. Co.'s line from Ogdensburg to Waddington, about 18 miles, is being agitated by the residents of the latter place. The right of way and financial assistance will be offered. If the extension is made it is probable that the road will be continued to Massena.

SYRACUSE, N. Y.—Local papers state that Gleason & Kiely, contractors, of this city, have already started work on an electric railway from Marcellus station to Marcellus Falls, thence to Rose Hill and Marietta on Otisco Lake, about 14 miles. The enterprise is said to be backed by Mills & Moir, Chicago, Ill.——The Syracuse, Lakeside & Baldwinville R. R. has decided to expend $50,000 this fall in double tracking its road from this city to Long Branch. D. Wilson, Secy.

TROY, N. Y.—Bids are asked until July 30 for the construction and equipment of the Whitehall & Granville R. R. The road will be operated by electricity. Chas. L. Baker, 10 Hall Bldg.

POTTSVILLE, PA.—It is stated that the Pottsville Union Traction Co. proposes to build a branch to Middleport this fall, and is now considering the proposition of building to Frackville.

READING, PA.—Surveys are to be started soon for the Union Traction Co.'s proposed road to Boyertown. At present there are three routes in contemplation, and when the surveys have been completed and decided on, plans will be drawn for construction, according to reports. S. D. Missimer, Ch. Engr.

SLATEDALE, PA.—The Slatedale St. Ry. Co. has been incorporated with $50,000 capital stock. F. J. Crilly, J. L. Schwartz and W. J. Saeger, Allentown, are interested.

ELKTON, MD.—The construction of the Cherry Hill, Elkton & Chesapeake City Electric Ry. is to be started at once. The state has made an appropriation of $580,000 towards building the road. John Kennedy, Pres.; Ambrose Higgin, Secy., Philadelphia, Pa.; Henry Brady and John Banks, Directors, Chesapeake City, Md.

VALDOSTA, GA.—G. R. Scrugham, Cincinnati, O., writes us that work was started July 9, by the Creaghead Engineering Co., Cincinnati, O., on the construction of the Valdosta St. Ry. Co.'s five-mile electric line. The Westinghouse system will be used with Laclede cars. T. G. Cranford, Pres., Valdosta.

BILOXI, LA.—W. L. Covil, Engr., of this place, has been instructed by the promoters of the Gulf Electric Ry. to begin the survey at once for the proposed road.

BELLEVUE, O.—The council has granted a franchise to the Toledo, Fremont & Norwalk Electric Ry. Co., to build on Main St. through the town. A. W. Comstock, Treas.

YOUNGSTOWN, O.—G. A. Townsend, Chicago, is interested in the proposed electric street railway to connect New Castle, Sharon and this place. The line will be about 50 miles long. Franchises have been granted.

ANDERSON, IND.—It is stated that the Central Traction Co., which proposes to build an electric road from Kokomo to Indianapolis, has succeeded in financing the project. The right of way has been obtained, and work will be started on Aug. 15.

CRAWFORDSVILLE, IND.—The county commissioners have granted a franchise to P. C. Somerville, Andrew E. Reynolds and Dr. Jesse F. Davidson for an electric railway from Yountsville through Alamo, Bluff Mills and Waveland, and from Crawfordsville to Shannondale.

INDIANAPOLIS, IND.—John H. Mahoney, Pres., Indianapolis, Morristown & Rushville Traction Co., 912 Stevenson Bldg., Indianapolis, writes us that contracts for the construction of the company's road will be let in early fall, and negotiations for the capital are now being made. Rights of way have been purchased and franchises are all secured. The preliminary survey will soon begin. The road will be an electric, 30 miles in length.

LAPORTE, IND.—Local papers state that the preliminary work on the construction of the Laporte & Michigan City Electric R. R. will be started by the C[illegible]go Installation Co., contractors, within 30 days. [illegible]mediate steps will be taken to secure franchises for th[illegible]ty and county. J. A. Brett, Pres.; A. L. Searles, Secy., [illegible]hicago; E. F. Michael, Treas., Laporte.

SHELBYVILLE, IND.—The Shelbyville Heat[illegible]ght & Power Co. has had the time allowed in its fr[illegible]se for beginning construction extended for 120 days. [illegible] company is now negotiating for the capital, and [illegible] will probably be started when it is secured.

ADRIAN, MICH.—A. P. Southworth, Pres., [illegible]an St. Ry. Co., informs us that contracts will be let a[illegible]ce for reconstructing the company's line about four [illegible]les in length. A complete equipment will be needed.

DETROIT, MICH.—The Detroit & Toledo Ele[illegible] Ry. Co. is now surveying and obtaining the rights o[illegible]y between Munroe and Detroit for an electric line.

DETROIT, MICH.—The Michigan & Ohio Electr[illegible]al Ry. Co. has been incorporated with $200,000 capital [illegible]k, to build a third-rail electric railway between D[illegible] and Toledo, for which franchises and rights of way [illegible] all secured. Asnwell & Co., Detroit, Engrs., are [illegible] out the route. W. W. Johnston and Milton Carmichael, Detroit, and Washington I. Robinson, New York, [illegible] interested.

BYRON, ILL.—Preliminary surveys are now u[illegible] way for the Rock River electric road, between Ore[illegible] and Rockford. The work is being done to ascertain [illegible] cost of the proposed road.

MACON, ILL.—R. H. Woodrock, Pres., Hervey [illegible]ity & Southern Electric R. R., Macon, informs us that the work of securing the rights of way for the company's [illegible] line will be started July 21 and pushed as speedily as possible.

KANSAS CITY, MO.—E. Butts, Ch. Engr., Metropolitan St. Ry., informs us that nothing has been done towards building the proposed extensions to the company's system. Mr. Butts states that the prices of materials will prohibit any extensive work this season, although a small amount of work may be done.

LITTLE ROCK, ARK.—Dr. A. D. Thomas informs us that the city is contemplating granting a franchise to the Little Rock Traction Co. for an extension of its present system on other streets.

FORT WORTH, TEX.—Local papers state that surveys will be started at once for the proposed interurban electric line between this city and Dallas. The road will be built with 70-lb. rails. Col. J. T. Voss, Pres., Glenwood & Polytechnic St. Car Co., is interested.

LOS ANGELES, CAL.—J. C. Benson writes us in connection with a proposed electric railway in a section of Los Angeles county northeasterly from this city, connecting with the city, and states that as the Los Angeles Pacific Ry. has been rather reluctant about building such a branch, he has thought it advisable to bring to the attention of Eastern capitalists and builders the prospects there are offered in constructing this line. The road will be not more than five miles in length, and will be easily constructed, there being little or no grade, and comparatively inexpensive to operate. Electric power can easily be obtained from one of the several large electric plants in the vicinity. Mr. Benson suggests if parties desire to co-operate with the Los Angeles Pacific Ry. Co. in the construction, that they correspond with J. Griffith, Pres., Los Angeles, or if desirous of co-operating with independent electric companies, D. H. Quiler, W. C. B. Richardson and V. C. Burch, all of Tropico, Cal., may be addressed. Mr. Benson believes that the passenger and freight traffic of this line will be remunerative from the start and in the course of the year will pay large dividends on the investment. We noted Mr. Benson's inquiry in our issue of May 17, asking for correspondence with parties interested in such enterprises.

ELECTRIC LIGHT AND POWER.

AUBURN, ME.—It is stated that the Lewiston & Auburn Electric Light & Power Co. will erect a new dam and powerhouse on the Little Androscoggin River at Littlefield's Corner. H. W. Oakes, Pres.

MADISON, ME.—At a town meeting $1,200 was voted for purchasing water rights for a municipal plant. No steps will be taken towards its erection until next spring.

CATO, N. Y.—Reports state that the question of erecting a plant here is being considered.

WAPPINGERS FALLS, N. Y.—The contract for erecting the new municipal plant has been let to W. M. Sheehan & Co., of Newburgh, at $14,478.

NEWARK, N. J.—The United Electric Co., 207 Market St., has filed plans for a 2-story brick powerhouse at the city dock, to cost about $36,500. Dudley Farrand, Gen. Mgr.

VINELAND, N. J.—The council has passed an ordinance authorizing the expenditure of $170,000, for erecting a plant and for sewer and water-works improvements, etc.

BEAVER FALLS, PA.—The council of College Hill borough has directed the light committee to advertise for bids for erecting a plant.

CONEMAUGH, PA.—The contract for erecting the new municipal plant has been let to the Altoona Electrical Engineering & Supply Co., of Altoona, at $9,816.

NEW WILMINGTON, PA.—It is stated that the contract for erecting the new municipal plant, to cost about $6,000, has been let to W. J. Shields.

BALTIMORE, MD.—The board of awards has rejected the bids recently received for lighting the city, and will alter the specifications and readvertise.

BIRMINGHAM, ALA.—The light committee is said to be considering the question of erecting a municipal plant.

DOTHAN, ALA.—The mayor writes us that bids will be received in about 30 days for erecting the new municipal plant to operate 25 1,200-c. p. arc and 1,000 16-c. p. incandescent lights, to cost about $10,000.

JACKSON, LA.—Bids are asked by the board of administrators of the State Insane Asylum for erecting a plant at the asylum. George A. B. Hays, M.D., Supt.

NEW IBERIA, LA.—Bids are asked until August 9 for erecting a plant requiring one 85-HP. and two 120-HP. engines, two 75-K-W. generators, about nine miles of wire, switchboards, etc., and the moving of two generators; also for erecting a water-works plant, as stated in our advertising columns. A. J. Cammack, Cy. Clk.

PRATTVILLE, ALA.—It is stated that this town contemplates erecting a plant.

PORT GIBSON, MISS.—The contract for installing new machinery in the municipal plant has been let to the General Electric Co., of Schenectady, N. Y., according to reports.

DAYTON, KY.—We are informed that H. M. Stegeman and others have been granted a franchise and will erect a plant to cost about $40,000. C. B. Hayward, Cy. Clk.; J. A. Rabbe, Cy. Engr.

DAYTON, O.—We are informed that the National Cash Register Co. is preparing plans for a complete new electric plant at its works. E. A. Deeds, Electrical Engr., Engineering Dept.

EVANSVILLE, IND.—The water-works board has rejected all bids received for erecting a plant at the new water-works station and will readvertise the work.

LAWRENCEBURG, IND.—The mayor writes us that J. B. Nelson, Baldwin Block, Indianapolis, has been engaged to prepare plans for the new municipal plant.

NEW ALBANY, IND.—The New Albany Water & Light Co. has applied for a franchise to erect a plant.

RICHMOND, IND.—H. L. Weber, Cy. Engr., writes us that the council may employ an engineer to prepare plans and specifications for the new municipal plant, or it may order the city engineer to prepare same. A press report states that the council has engaged James B. Nelson, of Indianapolis, to prepare the plans.

ALGONAC, MICH.—Bids are asked until July 30 for constructing a plant and water-works for this town. Field & Hinchman, Engrs., Majestic Bldg., Detroit; Roy T. Gilbert, Village Clk.

ANN ARBOR, MICH.—Bids are asked, according to reports, by the city clerk until August 6 for furnishing the city with 120 arc and 2 incandescent lights for five years.

BAY CITY, MICH.—T. A. E. and J. C. Weadcock are said to have applied to the council for a franchise for the Traction & Power Co.

BELLAIRE, MICH.—Reports state that J. L. Hissey, of Sparta, will erect a plant here shortly.

ALTONA, ILL.—The electric plant and several other buildings, owned by J. A. Tomquist, were recently destroyed by fire; loss about $10,000.

MAZOMANIE, WIS.—Fire destroyed the electric plant and damaged the water-works recently. Loss about $20,000.

OSKALOOSA, IA.—Bids are asked until August 20 for lighting this city for from five to fifteen years, requiring about 50 2,000-c. p. arc and 50 32-c. p. incandescent lights. C. E. Munroe, Cy. Clk.

WYOMING, IA.—This town will soon hold a special election to vote on the question of issuing bonds for erecting a municipal plant, according to reports.

MANTORVILLE, MINN.—The council is said to have let the contract for erecting a plant to R. D. Harrison, of Minneapolis.

SHAKOPEE, MINN.—Bids are asked by the light committee until August 6 for erecting the new municipal plant. H. J. Peck, Mayor.

STILLWATER, MINN.—The board of directors of the Stillwater Gas & Electric Co. is said to have directed the superintendent to enlarge the plant. N. Johnson, Supt.

TEKAMAH, NEB.—A committee has been appointed to report on the advisability of issuing $8,000 in bonds for erecting a plant.

CLEBURNE, TEX.—E. A. Ellis, of Dallas, is said to have applied to the council for a franchise for a plant.

LOVELAND, COLO.—We are informed that bids will be received until the second week in August for erecting the plant for this city. E. Y. Sayer, Engr., City Hall, Denver; R. D. Martin, Cy. Clk.

OXNARD, CAL.—Reports state that a plant will soon be erected here.

NEW COMPANIES.—Keswick Electric Light Co., Keswick, Cal.; $50,000; H. D. Scribner, A. F. Johns, P. S. Coke, H. C. Donnels, W. H. Bone, San Francisco.

Needham Electric Co., Needham, Mass.; $15,000; W. W. Carter, C. H. Carter, F. B. Carter.

BRIDGES.

BANGOR, ME.—Bids are wanted by the county commissioners until July 31, for building the abutments for the bridge across the Millinocket stream at Millinocket.

PORTLAND, ME.—Bids are wanted until July 26 for building the approaches to the highway bridge over the Maine Central R. R., near Veazie. Theo. L. Dunn, Ch. Engr.

BOSTON, MASS.—The following bids were received by Wm. Jackson, Cy. Engr., July 23, for building eight masonry piers for the Cambridge bridge, advertised in Engineering News: Holbrook, Cabot & Daly, 1140 Tremont Bldg., Boston, $460,000 (accepted); O'Brien, Sheehan, Perkins & McHale, 16 City Square, Charlestown, $466,136; Miller & Ellis, 17 Milk St., Boston, $466,749; Jones & Meehan, 1 Beacon St., Boston, $479,000; Ross & Fowler, 28 School St., Boston, $495,000; William J. Lawler, 16 City Square, Charlestown, $513,000; Nawn & Brock, 82 Savin St., Roxbury, $597,000; Metropolitan Contracting Co., 95 Milk St., Boston, $614,344; National Contracting Co., 11 Broadway, New York, $627,000; Charles T. Derry & Co., 68 Devonshire St., Boston, $633,777; Alexander McGaw & Co., 836 Preston St., Philadelphia, Pa., $657,800.

EAST BRIDGEWATER, MASS.—The question of building a stone bridge on Union St., near the old iron works plant, is being considered.

NORTH ADAMS, MASS.—Bids are asked until Aug. 4 for building the steel superstructure of two plate girder highway bridges at this place, as stated in our advertising columns. Plans and specifications may be seen at the office of Engineering News Publishing Co., 220 Broadway, New York. J. L. Temple, Comr. Pub. Wks.

STERLING, MASS.—The town has voted to appropriate $900 additional to the $400 voted in the spring for the building of an iron bridge over Still River, to have stone abutments.

WOONSOCKET, R. I.—Bids are asked until July 30 for constructing a wooden bridge on Kendrick Ave., over the Blackstone River and Hamlet trench, as stated in our advertising columns. Frank H. Mills, Cy. Engr.

BRIDGEPORT, CONN.—At a recent town meeting it was voted by the selectmen to build an iron bridge over Cotton Mill Hollow, to cost not more than $2,500.

EAST HAMPTON, CONN.—It is stated that a wooden trestle, 1,000 ft. in length, will be used on the line of the Moodys & East Hampton Ry., across Leesville Cove. The structure will cost about $10,000. About five other smaller bridges will be needed. E. C. Crocker, Secy., Bridgeport.

ALBANY, N. Y.—The contract for building a bridge over the canal at Medina, was let July 19 to John Horan, Medina, at $5,090.

AUBURN, N. Y.—The contract for repairing the Lizette St. bridge has been let to the Owego Bridge Co., Owego, at $3,200.

NEW YORK, N. Y.—The contract for constructing the viaduct along the Riverside Drive, across 96th St., was awarded July 19 to A. O. Gildersleeve, 215 West 125th St. The itemized bids for this work were published in our issue of July 12, under Contract Prices.

CAMDEN, N. J.—Bids are asked until Aug. 6, a change of date from Aug. 10, for constructing a steel highway bridge to have one span 78 ft. long, 18 ft. wide, as stated in our advertising columns. Plans and specifications may be seen at the office of the Engineering News Publishing Co., 220 Broadway, New York. James D. Wilkinson, Chn. Bridge Com.

FLEMINGTON, N. J.—The county freeholders have decided to build a low truss iron bridge across the creek near Unionville, to cost about $1,500, according to reports.

GLEN GARDNER, N. J.—The board of freeholders have ordered a new bridge to be built over Reed's Creek, at this place, according to reports.

SOMERVILLE, N. J.—The board of freeholders have decided to build a new bridge at Hamilton St., Bound Brook. The bridge will be a steel girder structure, with brick arches, concrete and macadam top, and two cement sidewalks. Director Logan, of the board of freeholders, is one of the committee appointed to look after the construction.

CHESTER, PA.—The county commissioners have awarded the contract for rebuilding the eastern abutment of the bridge over Chester Creek, at Ninth St., to Edward Dickerson and Michael Honan, at $9,283.

CLARION, PA.—The county court has granted the order that the commonwealth rebuild the bridge across the Clarion River, the viewers having recommended its erection. Estimated cost, $40,000.

PITTSBURG, PA.—Plans are being made by John Brumer, Supt., of the city bureau of engineering and construction, for the new 10th St. bridge.

SHOEMAKERSVILLE, PA.—Bids are asked until Aug. 1 for constructing a bridge over Plum Creek; estimated cost, $3,000. M. M. Dreibelbis, Engr., Hamburg.

BALTIMORE, MD.—The county commissioners have granted permission to the Baltimore & Potomac R. R. Co. to close Washington Ave. pending the construction of the new bridge over Winan's Crossing. The bridge will cost about $15,000, and will eliminate a dangerous grade crossing.

COURTLAND, ALA.—Bids are reported wanted by the board of revenue of Lawrence county for constructing a new iron bridge across Big Nance Creek, or to rebuilt the present structure.

JACKSONVILLE, FLA.—Bids are wanted by the county commissioners until Aug. 15 for erecting a bridge across the Alafia River, according to reports.

OTTAWA, O.—Bids are reported wanted until Aug. 2 for building a bridge across Auglaize River, to be 150 ft. in length. Louis N. Welde, County Audr.

INDIANAPOLIS, IND.—Bids are wanted by the county commissioners until Aug. 1 for constructing a stone arch bridge over Lich Creek, on the Brookville Free Gravel Road. Harry B. Smith, Audr.

RICHMOND, IND.—It is reported that the Wabash Bridge Co. has received the contract for constructing four bridges for the Cincinnati, Richmond & Muncie R. R., all of which will be located in this city. The cost of constructing the bridges will amount to about $100,000.

SOUTH BEND, IND.—Bids are asked until Aug. 15 for building a plate girder bridge over the St. Joseph River at Sample St., to be about 380 ft. long, according to reports. Estimated cost, $50,000. John W. Brown, County Audr.

CHICAGO, ILL.—The Lincoln Park commissioners have decided on the location of one of the six new bridges to be erected in the park. The structure will cost about $2,000.

LEAVENWORTH, KAN.—Local papers state that the county commissioners will build two bridges on the road near Harvey's farm, one of which will be an iron structure about 90 ft. long, including approaches.

TOPEKA, KAN.—The question of building a bridge on Fairchild St., North Topeka, to Oakland, is being considered. The structure will cost about $12,000, and the coming legislature will be asked to appropriate $10,000 and the remainder will be supplied by the commissioners.

FARGO, N. DAK.—Barnes township has petitioned the county commissioners for a 70-ft. bridge, to span the slough in section 12.

CONWAY, ARK.—Bids are wanted by the county commissioners until Aug. 1 for building an iron bridge across Cadron Creek.

WACO, TEX.—The council has selected Washington St. as the site for the proposed new bridge over the Brazos River. It is stated that work will be started as soon as the contract can be let.

FAIRHAVEN, WASH.—Bids are asked by the county commissioners until Aug. 15 for building a bridge (wooden?) on road No. 63, according to reports.

STEVENSON, WASH.—Bids are wanted by the county commissioners until Aug. 6 for building a bridge 220 ft. long, including the approaches, over a tributary of the Columbia River, above this place, according to reports.

ALBANY, ORE.—Bids are asked until Aug. 9 for constructing a Howe truss covered bridge across the South Santiam River, near the mouth of McDowell Creek, according to reports. W. F. Hammer, Clk.

PORTLAND, ORE.—Bids are wanted by the county commissioners until Aug. 4, according to reports, for reconstructing the Madison St. bridge swing span.

EUREKA, CAL.—The San Francisco Bridge Co. is reported to have been awarded the contract for building a steel bridge across the Van Duzen River at Alton, at $25,890.

REDDING, CAL.—Austin Brown, Gen. Supt., informs us that the lowest bid received by the De La Mars Bully Hill Mine for constructing a wooden bridge over the Pit River, was submitted by E. Markwich, Redding, at $6,903. The bridge will be 480 ft. long.

SAN ANDREAS, CAL.—Bids are asked until Aug. 18 for building a bridge across Angels Creek on the road from Angels Camp to Vallecito, according to reports. J. S. Jack, Clk. County Supervisors.

STOCKTON, CAL.—Bids are asked until Aug. 7 for constructing a steel span bridge and trestle approaches on the lower Sacramento road, over the Calaveras River, according to reports. Otto Grimsky, Clk. County Supervisors.

VISALIA, CAL.—Bids are asked until Aug. 7 for constructing a bridge across the Tule River in township 21, according to reports. John Cutler, Jr., Clk. Bd. of Supervisors.

CHARLOTTETOWN P. E. I.—Bids are reported wanted by the dominion government until Aug. 10 for building the substructure of a combined highway and railway bridge across the Hillsboro River, at this place. Plans may be seen at office of the superintendent of the Prince Edward Island Ry., this place, and at the office of the chief engineer of the Intercolonial Ry., Moncton, N. B.

GUELPH, ONT.—Bids are asked until Aug. 1 for building the masonry abutments and steel superstructure of a bridge between Wellington and Grey counties, about two miles west of Mount Forest. James Hutcheon, Engr.

BUILDINGS.

NASHUA, N. H.—The trustees of the public library will, it is said, soon have plans prepared for a new building, to cost about $50,000.

FALMOUTH, MASS.—The library committee has accepted the plans of Beacon & Mears, 7 Mt. Vernon St., Boston, for the proposed new library building.

FOXBORO, MASS.—Reports state that this town recently voted at a special election to issue $233,000 in bonds for rebuilding the burned school house.

SPRINGFIELD, MASS.—Geo. M. Burnham, 53 Bridge St., submitted the lowest bid at $15,095, July 6, for alterations to the post office building.

BRISTOL, R. I.—Bids are asked until about August 15 for erecting a 2-story brick school house, 84 × 76 ft., to be steam heated, and cost about $25,000. W. R. Walker & Son, Archs., Providence; E. Hill, Secy. Bldg. Com.

BRISTOL, CONN.—It is stated that Austin J. Curtiss and A. F. Tallion will erect a business block on Main and Summer Sts.

BROOKLYN, N. Y.—Bids are asked by the board of education, 59th St. and Park Ave., New York, until July 30, for erecting Public School No. 131.——R. Dixon, 213 Montague St., is said to have prepared plans and specifications for three flat buildings for Elizabeth Assip, 224 Sixth Ave., to cost about $75,000.——Chas. H. Roberts, Hempstead, L. I., is reported to have plans for six 3-story brick residences on St. Mark's Ave., near Nostrand Ave., for W. R. Pierce, to cost about $60,000.

BUFFALO, N. Y.—Green & Wicks, 110 Franklin St., have prepared plans for a casino and boat house, for the park board at Park Lake, to cost about $30,000.

ITHACA, N. Y.—W. H. Miller, Sage Block, has prepared plans for new medical buildings at Cornell University.

NEWARK, N. Y.—Reports state that work will soon be started on the proposed public library building, to cost about $60,000, which H. C. Rew, of Chicago, Ill., has given to this city.——Appropriations amounting to about $90,000 have been recommended by the special committee for erecting three new buildings at the State Custodial Asylum for Feeble Minded Women.

NEW ROCHELLE, N. Y.—The fire commissioners have let the contract for erecting the new fire headquarters building on Church St. to Mathias Bautel, P. O. Box 742, at $27,000.

NEW YORK, N. Y.—The board of estimate and apportionment has returned, unopened, all bids received July 19 for the completion of the hall of records building. No date has been set for receiving new bids. J. R. Thomas, Arch., 160 Broadway.——H. J. Hardenburgh, 10 West 23d St., has prepared plans for the new 18-story Maritime Bldg., at Bridge and Pearl Sts.——Reports state that Louis Cochran, of Chicago, Ill., will erect a 17-story office building at Stone, William and South William Sts., to cost about $150,000.

NEW YORK, N. Y.—Plans have been filed by John F. Kuchler, 58 East 123d St., for four 5-story brick tenements, 25 × 87 ft., at 118th St., near Madison Ave., to cost about $100,000, Henry Anderson, Arch., 330 Madison Ave.; by A. D. Andre, 217 West 125th St., for two 5-story brick tenements, 25 × 86 ft., at 150th St., near Morris Ave., to cost about $50,000, Henry Anderson, Arch.; by W. H. Muhlker, 3 East 169th St., for a 6-story brick tenement, 50 × 90 ft. at 123d St., near Amsterdam Ave., to cost about $65,000, Richard R. Davis, Arch., 247 West 125th St.; by Frank W. Herter, 503 Manhattan Ave., owner and architect, for a 7-story brick apartment house, 50 × 90 ft., at 114 and 116 East 71st St., to cost about $102,000; by August Knatz, 19 Ave. A, for two 6-story brick tenements, 26 × 85 ft., at 1628 and 1630 First Ave., to cost about $50,000, M. Bernstein, Arch., 245 Broadway; by C. D. Lanchantin, 206 Hawthorne St., for two 5-story brick tenements, 33 × 87 ft., at 112th St. near 8th Ave., to cost about $71,500, Forstrick & Lanster, Archs., 76 Montgomery St., Jersey City, N. J.; by the Lambda Association, 27 Pine St., for a 4-story brick clubhouse, 25 × 80 ft., at 115th st., near Broadway, to cost about $40,000, Little & O'Connor, Archs., 20 West 34th St.; by the German Hospital, for a 5-story hospital building, 45 × 81 ft., at Lexington Ave. and 77th St., to cost about $120,000, Schickel & Ditmars, Archs., 111 Fifth Ave.; by Eldridge T. Gerry, Newport, R. I., for a 3-story brick office and studio building, 201 × 98 ft., at Fifth Ave., from 46th to 47th Sts., to cost about $300,000, C. T. Berg, Arch., 10 West 23d St.; by the Brightside Day Nursery and Kindergarten, 141 Suffolk St., for a 5-story brick nursery building, 25 × 80 ft., at 89 Cannon St., to cost about $35,000, Buchman & Fox, Archs., 11 East 59th St.; by James Everard, 697 Fifth Ave., for a 6-story brick flat, 50 × 120 ft., at 303 and 305 East 40th St., to cost about $50,000, Jas. W. Cole, Arch., 427 Fifth Ave.; by the Yale Bldg Co., 37 Wall St., for an 11-story brick clubhouse, 50 × 82 ft., at 30 and 32 West 44th St., to cost about $250,000. Tracy & Swartwood, Archs.

NEW YORK, N. Y.—The following bids were received by the department of education, 59th St. and Park Ave., July 23, for erecting Public School No. 184: Harry McNally, 287 4th Ave., $297,500; P. J. Brennan, 224 St. and 6th Ave., $298,330; P. J. Walsh, 5th Ave. and 424 St., $304,000; Thomas Dwyer, 5 Beekman St., $308,000; H. W. Weed & Co., 2585 Broadway, $317,900; Louis Wechsler, St. James Bldg., $318,750; Luke A. Burke, 401 West 59th St., $319,000; Thomas Cockerill & Son, 550 West 41st St., $334,900.

OSWEGO FALLS, N. Y.—Walter D. Cross, of De Ruyter, is said to have secured the contract for erecting a new school house here, to cost about $54,000.

LAWRENCEVILLE, N. J.—The board of directors of the Lawrenceville Academy is said to be having plans prepared for a new gymnasium building, to cost about $50,000.

TRENTON, N. J.—Spencer Roberts, 1014 Harrison Bldg., Philadelphia, Pa., is said to have prepared plans for the new public library building, to cost about $80,000.

ALLEGHENY, PA.—The contract for erecting the new building for the Allegheny Preparatory School, to cost about $50,000, has been let to Cochran & Davis, 39½ Erie St. T. H. Scott, Arch., 531 Wood St., Pittsburg.

JOHNSTOWN, PA.—It is stated that the First Lutheran Church will erect a new building, to cost about $60,000.

McKEESPORT, PA.—Bids are asked by the building committee of the McKeesport Carnegie Library until August 11 for erecting a new library building. Mrs. Fred. Crabtree, Secy.

PHILADELPHIA, PA.—Plans may be seen at the office of Wm. R. Dougherty, 1604 Sansom St., for a parochial school at Berks and 23d Sts., for St. Elizabeth's R. C. Church, to cost about $100,000.——Milligan & Webber have prepared plans for an 8-story apartment house at 18 to 22 South 27th St., for John Maginnis, 132 South 4th St., to cost about $75,000.——Newman, Woodman & Harris, Real Estate Trust Bldg., will prepare plans for rebuilding the armory of the City Troop of Philadelphia, at 23d and Chestnut Sts., to cost about $75,000. Address Capt. Groome, 128 S. 3d St., and Hugh Craig, 1917 Chestnut St.

PHILADELPHIA, PA.—The contract for erecting a new schoolhouse at York and Sepolva Sts. has been let to C. O'Neil, Jr., 1305 Alter St., at $74,919.——T. C. Trafford, 2335 North 15th St., submitted the lowest bid to the school committee for erecting a new schoolhouse in the 28th Section at $76,289.——G. W. Pierson has been awarded the contract at $29,795 for erecting a new firehouse at Park Ave. and Cambria St.

PITTSBURG, PA.—Reports state that Chas. M. Schwab, Pres. Carnegie Steel Co., will erect an industrial school for St. Joseph's Protectory and Industrial School, Tannehill St.

PITTSBURG, PA.—Bids are asked until August 6 for installing heating systems in the principal buildings at the city poor farm at Marshalsea, Pa. John M. Anderson, Director Dept. Pub. Charities.

SCRANTON, PA.—The contract for erecting the new Y. M. C. A. Bldg. is said to have been let to E. S. Williams, 25 Coal Exchange, at $182,814. Seymour Davis, Arch., 907 Walnut St., Philadelphia.

WILMERDING, PA.—The Pennsylvania R. R. will erect a new passenger depot here, according to reports, to cost about $40,000. W. H. Brown, Ch. Engr., Broad St. Station, Philadelphia.

BALTIMORE, MD.—It is stated that A. F. A. Schmitt, 604 Cortlandt Ave., New York, N. Y., has prepared plans for a hall on Baltimore, near Chapel St., to cost about $50,000, for St. Michael's R. C. Church. Wolfe and Lombarde Sts.——Armour & Co., Chicago, Ill., will, it is said, erect a large fertilizer building, 580 x 420 ft., at the foot of Allen St., to cost about $250,000.——The contract for erecting the new building for Mt. St. Joseph's College at Irvington has been let to George M. Blake, 120 East Lexington St., at about $45,000.——Reports state that the Knights of Columbus contemplate erecting a four-story brick building, 40 x 150 ft., to cost about $50,000. Address Jos. L. Smith, 103 N. Liberty St.

WASHINGTON, D. C.—Lester A. Barr will erect a 5-story apartment house at the intersection of Thomas Circle and N St.——A. P. Clark, Jr., 605 F St., N. W., is preparing plans for a 5-story apartment house at 1st and M Sts., N. W.——N. T. Haller, 15th and F Sts., has prepared plans, according to reports, for a 5-story apartment building, to cost about $175,000.——Sunderland Bros., 618 12th St., are said to be receiving bids for erecting a 4-story brick, steam-heated flat building on Howard Ave., near 14th St., to cost about $50,000, for Mrs. Power Chapin.——C. S. Harding, Washington Loan & Trust Bldg., is reported to have prepared plans and specifications for a 4-story and basement brick and stone residence on Dupont Circle, to cost about $50,000.

CHATTANOOGA, TENN.—Bids are asked by L. W. Bates, East Seventh St., until August 1 for erecting a building at Jersey for the Hamilton County Industrial School.

NASHVILLE, TENN.—Carpenter & Brown, Wilcox Bldg., have prepared plans for the St. Thomas hospital building for the Society of St. Vincent de Paul, to be 5 stories, 50 x 150 ft., and to cost about $150,000.

FULTON, KY.—It is stated that the Illinois Central R. R. will erect a passenger depot here, to cost about $40,000. W. H. Bell, Supv.

LOUISVILLE, KY.—Clarke & Loomis have plans for the proposed new 9-story Todd office building at Fourth and Market Sts.; also for the 5-story Bacon building, 76 x 150 ft., at Market, near Fourth St., and for a two-story brick building, 100 x 105 ft., at 8th and Greene Sts., for the Adams Express Co., according to reports.——The building committee of the Walnut St. Baptist Church is said to have selected the plans of Kenneth McDonald, 344 West Main St., for their new building at Third and St. Catharine Sts., to cost about $125,000.

NEWPORT, KY.—The following lowest bids were received July 6 for installing a heating system in the county infirmary, as advertised in Engineering News: J. S. McLane, 416 York St., $2,627; Geo. H. Fennell, $2,785; R. L. Dunning & Co., 330 West Pearl St., Cincinnati, O., $2,797; W. H. Meredith & Co., Pearl and Ludlow Sts., Cincinnati, O., $2,808.

EAST LIVERPOOL, O.—A. W. Scott writes us that the following bids were received July 7 by the board of library trustees for erecting the new Carnegie library building: J. C. Devine, Alliance, O., $38,600; Harvey M. Henry, East Liverpool, O., $37,815 (accepted); Constable Bros., 5th and Sassafras Sts., Erie, Pa., $45,300; Cook & Anderson, Bever, Pa., $47,000; J. B. Reaugh & Son, 523 Garfield Bldg., Cleveland, O., $40,500.

FINDLAY, O.—Bids are asked by the building committee until August 7 for erecting a Presbyterian church building, to cost $32,000, exclusive of furnishings. Kramer & Harpster, Archs.

CHICAGO, ILL.—Plans have been filed by S. T. Cook for four 3-story brick flats at 5806 to 5812 Prairie Ave., to cost about $50,000.——Fritz Foltz, 58 Wabash Ave., has completed plans for a 4-story brick building at South Water St. and Fifth Ave., to cost about $50,000, according to reports.——D. H. Burnham & Co., Rookery Bldg., are said to have let the contract for a 5-story brick building, 60 x 180 ft., at 233 to 237 E. Randolph St., for F. A. Hardy, 131 Wabash St., to cost about $80,000, to John Griffith & Son, Merchants Loan and Trust Bldg.——It is stated that T. R. Bishop, 189 La Salle St., will receive bids for erecting an apartment house at S. Park Ave. and 55th Place for R. Curran, 5247 Cornell Ave., to cost about $50,000.

MONMOUTH, ILL.—The following bids were received July 18 by Jas. K. Taylor, Supv. Arch., Washington, for constructing the U. S. Post Office building: Angus & Gindele Co., 188 Madison St., Chicago, $35,750; George B. Davis, Monmouth, $44,800; Wm. J. Cook, Clinton, Ia., $38,000; Murch Bros. Construction Co., 816 Olive St., St. Louis, $35,595; L. M. Garthwait, 138 Washington St., Chicago, $38,082; Wm. M. Crilly, 167 Dearborn St., Chicago, $39,211; Hennessy Bros. & Evans Co., 100 Washington St., Chicago, $32,000; Campbell Building Co., 115 Monroe St., Chicago, $33,800; J. Low, 904 Olive St., St. Louis, $45,500; Congress Construction Co., 1517 Masonic Temple, Chicago, $37,180; M. Yeager & Sons, Danville, Ill., $26,890; Chas. W. Gindele, 3333 La Salle St., Chicago, $37,442; V. Jobst & Son, 517 N. Adams St., Peoria, $29,977; Hennessy & Cox, 205 New York Life Bldg., St. Paul, $35,600; Forster & Smith, 717 Tenth Ave., Minneapolis, $33,480; Frank J Melbourne, Canton, O., $44,058.

PEORIA, ILL.—Reports state that the Central Ry. Co. will erect a new convention hall here, to cost about $60,000. J. Finley, Mgr.

GREEN BAY, WIS.—The state board of control has decided to appropriate $30,000 for improvements to the reformatory.

DES MOINES, IA.—The Chicago, Rock Island & Pacific Ry. has filed plans for a 2-story brick depot in Vine St., to cost about $75,000. C. N. Gilmore, Div. Supt.

DES MOINES, IA.—C. R. Dewey, 538 Good Block, is said to be preparing plans for an apartment house to cost about $100,000.

NORTHFIELD, MINN.—The contract for erecting the new dormitory, to cost about $50,000, for St. Olaf's College, is said to have been let to Charles Skooglum, 1019 Broadway, St. Paul. T. N. Mohn, Pres.

BELOIT, KAN.—J. C. Holland, 727 Kansas St., Topeka, is said to have prepared plans for a new court house, to cost about $40,000. J. B. Betts, 1029 N. Quincy St., has been awarded the contract at $35,585. W. M. Palen, County Clk.

LEAD, S. DAK.—Bids are asked until August 10 for erecting a 4-story brick steam-heated hotel building, 90 x 96 ft., with passenger elevator, electric lights, etc., to cost between $50,000 and $60,000. John W. Gibbs, Arch.

KANSAS CITY, MO.—Plans will soon be prepared for the new building at 15th St. and Broadway for the Second Presbyterian Church, to cost about $70,000.

MT. VERNON, MO.—Press reports state that J. D. Armstrong, 999 West Buteau Ave., Chicago, Ill., has been awarded the contract for erecting the new court house here, at $48,875.

TUCSON, ARIZ.—We are informed that work will soon start on the new Carnegie library building, to cost about $25,000. Chas. Connell, Cy. Recorder.

LOS ANGELES, CAL.—Bids are asked, according to reports, by the board of trustees of the state normal school until August 9 for erecting an addition to the present building. Edward T. Pierce, Secy.

OAKLAND, CAL.—W. J. Cuthbertson, 23 Flood Bldg., San Francisco, has completed plans for the new city hall building, to cost about $300,000.——A. E. Barrett submitted the only bids, at $49,400 and $46,155, to the board of library trustees for erecting the new Carnegie library. The bids were rejected and a readvertisement ordered.

PASADENA, CAL.—It is stated that the Methodist congregation will soon erect a new church building, to cost about $50,000.

WATER-WORKS.

WALDOBORO, ME.—This place has voted against the proposition to build works or to grant a franchise to the Waldoboro Water & Electric Light & Power Co.

BOSTON, MASS.—The following bids have been received for laying 1,425 ft. of 24-in. cast-iron water pipe across Chelsea Creek, and rebuilding 600 ft. of fender guard: Hiram W. Phillips, Boston and Quincy, $12,660; MacRitchie & Nichol, Chicago, Ill., $14,279; Geo. W. Townsend, Boston, $24,079.——The following bids were received by the Metropolitan Water Board, July 20, for a stand-pipe on Forbes Hill in Quincy: Walsh's Holyoke (Mass.) Steam Boiler Works, $4,425; E. Hodge & Co., East Boston, Mass., $4,498; Edward Kendall & Sons, Cambridgeport, Mass., $5,939; R. D. Wood & Co., Philadelphia, $6,720.

FISKDALE, MASS.—Reports state that bids are being received for a new reservoir on Shumway Hill, and for laying pipe, etc.

LANCASTER, MASS.—This place has voted to make a contract with the town of Lincoln, to supply Lancaster with water for 15 years, at 10 cts. a 1,000 gallons.

PITTSFIELD, MASS.—Preliminary plans for extending the works have been prepared and the board of works will present the same to the council and ask for an appropriation. The work will include a new masonry dam at Ashley Lake, the height to be raised 6 ft. E. A. Ellsworth, Engr., Holyoke, Mass.

BURRILLVILLE, R. I.—The town council has decided that it is not ready to grant a franchise to the Pascoag Light & Water Co. Councilman Fox, Chn. Com.

CENTRAL FALLS, R. I.—This place has made a ten-year contract with the city of Pawtucket to furnish Central Falls with water. This place will purchase and lay the mains, hydrants, valves, etc. F. N. Blake, Chn. Pawtucket Water Com., and W. H. Barclay, Comr. Pub. Wks; the Central Falls Committee consists of Jos. E. Fales, O. B. Parker and Theo. F. Dexter.

WOONSOCKET, R.I.—Local papers state that water commissioners may ask for $35,000 with which to purchase a new pump.

ROCKVILLE, CONN.—The Rockville Water & Aqueduct Co., it is stated, will extend its mains.

BABLYON (L. I.), N. Y.—The village board has made a one-year contract for furnishing water with the Sumpawams Water-Works Co. The question of the municipal ownership of works will be investigated in the meanwhile. Address Trustees Daily, Pres., and Oakley.

BLUE MOUNTAIN LAKE, N. Y.—Holroyd & Eveline, of Waterford, N. Y., are reported to have been awarded the contract, at about $18,000, for building works and a sewerage system.

BREWSTER, N. Y.—E. Wegmann, Katonah, N. Y., has been engaged to prepare plans for a water supply for this place. The question of building the works will first be voted upon.

BROCKPORT, N. Y.—The works, stated as owned by the Consolidated Water Supply Co., will be sold at auction on Aug. 27, according to reports.

FREEPORT (L. I.), N.Y.—The question of extending the water mains on Bayview Ave. is being considered. Geo. Wallace, Pres. Bd. Trustees.

FULTON, N. Y.—O. C. Breed, Cy. Engr., has prepared plans and submitted estimates for extending the mains to Woodruff Springs to secure the water supply there. A taxpayers' meeting will soon be called to vote on the question of appropriating $25,000 to carry on the work.

LANCASTER, N. Y.—Local papers state that the plans for the proposed works have been prepared, and that bids will soon be asked; estimated cost, $40,000. W. M. Small, Engr., Lancaster.

PEEKSKILL, N. Y.—The water commissioners are considering the question of an increased water supply. It is likely that an election will be held in September.

SMYRNA, N. Y.—At a citizens' meeting July 20 it was decided to build works at a cost of $7,500. There will be a reservoir 60 x 40 ft., 10 ft. deep, about a mile of 6-in. pipe, a pumphouse, a 10-HP. gasoline engine pump, etc. After the question has been legally voted upon specifications will be prepared and may be had by addressing J. W. Shepardson.

WALDEN, N. Y.—Bids are asked until Aug. 3 for a driven well plant, boiler and chimney, and otherwise improving the works, as stated in our advertising columns. Louis L. Tribus, Consult. Engr., 84 Warren St., New York; G. W. Stoddard, Pres. Water Bd.; Chas Rivenburg, Clk.

WALLINGTON, N. J.—The council has voted to hold an election on Aug. 14 to vote on the question of building municipal works. Address Councilman Polmann.

ALLENTOWN, PA.—It is proposed to hold an election in November to vote on the question of issuing $200,000 in bonds for improvements to the works.

HOUSTONVILLE, PA.—The question of works is being considered, the water supply to be secured from wells.

LEBANON, PA.—It is contemplated to extend the Hammer Creek water supply plant about two miles, which will necessitate a 20-in. force main and appurtenances, and laying of same. In this city, some 28 gross tons of 8-in. pipe are immediately required, besides all necessary materials and labor. J. D. Kerr, Secy. of Water Bd.; I. L. Beckley, Cy. Clk.

STEELTON, PA.—Bids are asked until Aug. 16 for furnishing the materials and for laying about 8,000 sq. yds. of concrete asphalt and brick lining for the reservoir, as stated in our advertising columns. J. D. Young, Secy.

WEST GROVE, PA.—It is stated that a syndicate proposes to sink wells on the farm of S. M. Collins for a water supply.

WILMINGTON, DEL.—The Arco Springs Water Co. has been incorporated with a capital stock of $250,000 by G. B. Van Cleve and P. O. Wadsworth, of New York.——The water commission proposes to lay 8-in. mains in several streets.

LAUREL, MD.—Hill, Quick & Allen, 520 Equitable Bldg., Baltimore, Md., have been engaged to prepare plans for the proposed works. There is some question of uniting the water-works and electric plant. Specifications will not be ready in some weeks. Population, 3,000. In our issue of last week we incorrectly reported the consulting engineer as C. E. Allen.

CHARLESTON, S. C.—The water committee is authorized to make most advantage contract looking to the final ownership of the works by the city. The water supply is to be secured from the Edisto River. Estimated cost, about $1,600,000. J. L. Ludlow, Consult. Engr., Winston, N. C.; J. H. Dingle, Cy. Engr.

GEORGETOWN, S. C.—E. R. Simpson, Atlantic House, Georgetown, wants the names and addresses of firms who will construct works for a town of about 6,000, including the construction of a dam.

ATLANTA, GA.—The council has appointed a committee to investigate into the cause of the recent breaks in the machinery and of any other imperfection in the system. A report on July 24 stated that a break occurred in the reservoir, but was soon repaired. H. M. Bitzell, Chn. Com.

CLAYTON, ALA.—It is likely that bids will soon be wanted for sinking artesian wells for a water supply. Nothing further, however, is likely to be done regarding building the works and an electric plant before December. E. P. Thomas, Mayor; T. D. Grubbs, Cy. Clk.

WOODLAWN, ALA.—The Irondale Water, Light & Power Co. has been incorporated with a capital of $100,000 by F. W. Turpin, N. W. Sewall and Robt. Zell, of Birmingham, Ala. Franchises for 50 years have been granted and work will be begun at once. At the end of 25 years the city has the option of buying the plants.

MERIDEN, MISS.—The committee has reported in favor of sinking artesian wells for independent works. It is likely that the first well will be sunk at once, favorable propositions having been received from W. B. Harp, of Dallas, Tex., and G. W. Soule, of this place. E. H. Dial, Mayor; W. G. Myers, Cy. Engr.; C. C. Wilson, Consult. Engr, Columbia, Ga.

NEW IBERIA, LA.—Bids are asked until Aug. 9 for furnishing the materials and for completing the works and electric plant, to include nine miles of water pipe, pumps, boilers, artesian wells, reservoirs, etc., as described in our advertising columns. T. W. Nicol, Engr.-in-Charge, Mobile, Ala.; A. J. Cammack, Cy. Clk.

LA FOLLETTE, TENN.—It is stated that surveys and specifications for works have been prepared; estimated cost, $50,000.

CALHOUN, KY.—Estimates for works have been prepared by Alfred Walker, New Albany, Ind., to consist of 3,963 ft. of 6-in. and 5,238 ft. of 4-in. pipe, 3½ tons of specials, 11 hydrants, two 6-in. and six 4-in. valves, eight valve boxes, 40-HP. boiler, a tower 40 ft. high and tank of 40,000 gallons, a duplex pump of 300 gallons a minute, 100 ft. of suction pipe, one check valve, pumping station, 20 x 20 ft., to be above high-water mark.

MOUNT STERLING, KY.—A contract for a water supply has been entered into with the Montgomery Water Co., who will build works at once. G. W. Baird, Mayor.

SPRINGFIELD, KY.—Alfred Walker, 223 Galt St., New Albany, Ind., has prepared estimates for works to consist of 5,000 ft. of 6-in. and 15,000 ft. of 4-in. pipe, three tons of special castings, 24 hydrants, four 6-in. valves, 12 4-in. valves, 16 valve boxes, tower 40 ft. high and a tank of 20,000 gallons, a storage basin of 3,000,000 gallons, a 50-HP. boiler, duplex pump with a capacity of 320 to 360 gallons a minute, pumping station, etc.

COSHOCTON, O.—Bids for furnishing the materials and for sinking a 30-ft. well 25-ft. deep were received July 24. D. A. Raiff, Supt.

GENEVA, O.—J. B. Strawn, Salem, O., has submitted estimates for a water supply from the Grand River. Address Mayor Palmer and Councilmen Russell and Tyler.

LAKEWOOD, O.—Bids are asked until Aug 13 for about nine miles of cast-iron water pipe and 7½ miles of 24- to 6-in. pipe sewers, to cost about $100,000. An election has been ordered to vote on the question of building a pumping and water filtration. Snow & Barbour, Engs. for sewers, Columbus, O., and Boston, Mass.; R. J. Wood, Hamlet Engr.

LOGAN, O.—An election was held July 24 to vote on the question of issuing $10,000 of 5% bonds for improving the works.

MOUNT VERNON, O.—Plans are being considered by the board of trustees to provide for an emergency water supply. Address Superintendent Koons.

CHARLESTOWN, IND.—The proposed works will consist of a boiler of 35 HP., a duplex pump with 360 gallons per minute, 51¼ tons of 6-in. pipe, 120½ tons of 4-in. pipe, 2¼ tons specials, 24 hydrants, six 6-in. and nine 4-in. valves, 15 valves boxes, a stand-pipe 8 x 60 ft., one 8-in. valve, 100 ft. of 6-in. suction pipe, a check valve, a storage basin to contain 3,000,000 gallons, a pumping station, 20 x 20 ft., etc. Alfred Walker, Engr. and Contractor, 223 Galt St., New Albany, has also prepared estimates for works for Clarksville, Ind.

INDIANAPOLIS, IND.—The next legislature will be asked to appropriate funds for a better water supply for the Northern Hospital at Logansport; estimated cost, $10,000. Address Dr. Butler, Secy. Bd. State Charities.

PETERSBURG, IND.—Frank Schefold, of New Albany, Ind., has been awarded the contract to build works to cost about $25,000.

ALGONAC, MICH.—Bids are asked until 7.30 p. m., July 30, for furnishing the materials and for constructing works and an electric plant. Field & Hinchman, Engrs., Majestic Bldg., Detroit, Mich.; R. T. Gilbert, Village Clk.

DETROIT, MICH.—Bids are asked until Sept. 11 for furnishing and erecting one or two pumping engines of 25,000,000 gallons each, as stated in our advertising columns. J. W. McGrath, Pres. Bd. Water Comrs.; B. F. Guiney, Secy. The bids received for these engines July 11 and which were rejected, are as follows, (1) being for one engine and (2) for two engines: Holly Mfg. Co., Lockport, N. Y., (1) $175,000, (2) $350,000; Detroit Shipbuilding Co., Detroit, (1) $196,000, (2) $286,000; P. H. & F. M. Roots Co., Connersville, Ind., (1) $110,050, (2) $190,850; S. F. Hodge & Co., Detroit, Mich., (1) $199,000, (2) $398,000; Camden Iron Works, Camden, N. J., (1) $137,500, (2) $269,000; E. P. Allis Co., Milwaukee, Wis., (1) $164,000, (2) $325,000; Dickson Mfg. Co., Scranton, Pa., (1) $124,500, (2) $246,000.

GRAND RAPIDS, MICH.—The council has been petitioned by residents of the district in the neighborhood of the reservoir recently destroyed not to rebuild the dam on the old site. The question of buying the Bailey farm and using the springs located there for a new water supply is being advocated by Mayor Perry.

HOMER, MICH.—The council has been asked to hold an election Aug. 6 to vote on the question of issuing $10,000 in bonds for works.

JACKSON, MICH.—The contract for a direct suction system for an increased water supply of 10,000,000 gallons has been let to J. E. Bacon at $18,500. The question of water meters is also being considered. The city voted last spring to issue $25,000 in bonds for improving the water supply.

MARQUETTE, MICH.—Bids are asked until Aug. 10 for furnishing 600 ft. of 42-in. riveted steel pipe, with connections, etc. J. P. Kern, Secy. Water Comrs.; John Krey, Consult. Engr.

CHICAGO, ILL.—The American Water Co. is the name of a new concern, with a capital of $200,000, that has been formed by the Waukesha Water Co., Waukesha Arcadian Water Co., Aurora Lithia Water Co., Chippewa Spring Water Co., Silurian Mineral Spring Water Co. and the Almanaris Co.

MOLINE, ILL.—It is stated that arrangements will be made at once for constructing a filtration plant. Address Mayor Wessel.

NUNDA, ILL.—Bids are asked until Aug. 3 for furnishing the materials and for constructing the proposed works, estimated to cost $14,000. The works will consist of a tank on an 80-ft. brick surface, 5,172 ft. of 4-in., 2,080 ft. of 6-in. and 2,369 ft. of 8-in. pipe, about three tons of

specials, 13 hydrants, a gasoline engine of 25 HP., a triplex pump of 250-gallons capacity a minute, and a storage reservoir 25 ft. in diameter. E. P. Wheeler, Engr., 1200 Old Colony Bldg., Chicago; E. G. McCollum, Secy.

PEORIA, ILL.—The insurance interests have asked the council to take steps to lay a second water main from the pumping plant to the city.

FORT DODGE, IA.—W. L. Pray, Supt., has submitted plans for enlarging the filter galleries at the reservoir. The Smedley Steam Pump Co., of Dubuque, Ia., has about finished the erection of a 3,000,000-gallon pumping engine.

OTTUMWA, IA.—The committee, it is stated, will report against the city's purchasing the works of the City Water Supply Co., because the company wants a separate corporation to build and operate the pumping plant that it is proposed to erect near the Morrell ice house, and also because the company wants to string electric wires along the highways.

ALBERT LEA, MINN.—The question of putting in water meters is being considered. Address Mayor Dunn.

AUDUBON, MINN.—Thos. Swanson & Honsar, Audubon, have been awarded the contract for building two reservoirs.

BALATON, MINN.—This place has voted to issue $3,000 in bonds for works.

BENSON, MINN.—Bids are asked by the village recorder until July 30 for 4-in. water mains in certain streets.

LESTERVILLE, S. DAK.—The contract for furnishing and laying 2,000 ft. of 6-in. water pipe has been let to W. L. Bruce, Yankton, S. Dak., at $2,165.

WOONSOCKET, S. DAK.—Reports state that the council has let the contracts for furnishing the materials and for constructing works, to cost about $6,000.

KANSAS CITY, MO.—Superintendent Longwell, of the water department, has been directed to prepare plans for a 30-in. water main from Kaw Point to 12th and Genessee Sts., to cost about $30,000. It is likely work on the main will soon be begun.

ST. CHARLES, MO.—Carr Edwards, Cy. Engr., and Frank J. Bull, a contractor, have submitted a report on the value of the works of the St. Charles Water & Improvement Co., H. C. Scott, Pres., estimating the property to be worth about $61,332. The company has been offered $62,000 for the works, which if not accepted in 20 days from July 19 steps will be taken by the city to receive bids for building new works, to cost about $115,000. Dr. J. C. Bruere, Chn. Water Com.

ST. LOUIS, MO.—Bids are asked until Aug. 7 for furnishing about 5,390 tons of cast-iron coated water pipe, 170 tons castings and seven 36-in. and one 30-in. stop valves, and a 36-in. check valve, for the Baden high service pumping station. R. E. McMath, Pres. Bd. Pub. Improvements.——The council is considering an ordinance appropriating $100,000 for erecting and equipping a machine shop at Bissell's Point, etc. C. H. Holland, Secy. Water Dept.

WEST PLAINS, MO.—An election, it is stated, will be held July 27 to vote on the question of issuing $27,500 in bonds for works.

COLORADO SPRINGS, COLO.—The council has voted to complete the Strickler tunnel under the supervision of the city engineer, at a cost of about $10,000.

GOLDFIELD, COLO.—Press reports state that a temporary injunction was issued from the district court of Cripple Creek July 14 against Jas. E. McRae and J. E. Little and the city council restraining them from making connection in any way with the city water mains for the purpose of establishing new works. The occasion for the injunction is the letting of a contract by a majority of the members of the council to McRae & Little.

PUEBLO, COLO.—The trustees of the north side waterworks are planning to build a new reservoir, to cost $8,000.

REPUBLIC, WASH.—The Republic Consolidated Gold Mining Co. has been granted a franchise to lay mains and furnish this place with water. The water will be pumped from O'Brien Creek, five miles, to a reservoir above the town.

SPOKANE, WASH.—Reports state that a proposition to build new mains throughout the entire city will be submitted to the voters in May.

PORTLAND, ORE.—Bids were received July 25 for constructing a retaining wall of timber, brush and stone at the Sandy River crossing of the Bull Run pipe line. D. D. Clarke, Engr.; F. T. Dodge, Clk. Com.

LOS ANGELES, CAL.—The city engineer has been directed to prepare estimates for a new pipe line to furnish water to Westlake Park, to cost $3,000.

SACRAMENTO, CAL.—Local papers state that the Citizens Water Committee, Gen. Tozer, Chn., will soon make its final report for a new water supply. The residents of the 8th Ward are urging a better water supply for that section of the city.

SAN FRANCISCO, CAL.—City Engineer Grunsky has been directed by the board of supervisors, on the recommendation of the committee on public utilities, to prepare plans and estimates for city works, with sources of water supply from Lake Tahoe, the forks of the American River, the forks of the Yuba River and the Feather River. Immediate steps will be taken to acquire one of these sources of supply. The valuation of the property of the Spring Valley Water-Works Co. will also be made. The Marysville & Nevada Power & Water Co. has offered to sell its water supply on the North Yuba River, for $1,000,000. A number of other owners of water rights have offered to sell their supplies at prices ranging to $2,500,000. Supervisor Reed, Chn. Com.

WEST RIALTO, CAL.—The West Rialto Water Co. has completed its formation and will construct a pipe line to convey water from Lytle Creek, about six miles above; estimated cost, $6,000. Up to July 17 no contracts had been let. H. H. Miller, Secy.

WILLOWS, CAL.—The Lemon Home Water, Power & Light Co. has been incorporated with a capital stock of $250,000, to furnish water for domestic and irrigation uses, light and power, etc., by Amiel Hochheimer, Willows; Samuel Ehorn, Orland, and J. F. Spencer, Sacramento.

OGDEN, UTAH.—The council has directed the city engineer to prepare plans and specifications for new works. Jos. Sanders, Street Supervisor, Mayor Browning, and Councilmen Brown, Carr and Emmett may be addressed.

SALT LAKE CITY, UTAH.—This city voted July 16 to issue $250,000 of 4% 20-year bonds for increasing the water supply, the contracts for which have mostly been let. R. C. Naylor, Cy. Recdr.——Efforts to find an increased water supply are being made, and several propositions have been submitted.

BUTTE CITY, IDAHO.—Press reports from Boston, Mass., state as follows: Judge Brown, of the U. S. District Court, has authorized Receiver Wing, of the Globe National Bank, to deposit certain securities of the Butte City Water Co., valued at $10,270, with the Massachusetts Loan & Trust Co., of Boston, and upon completion of the reorganization of the company to receive in place thereof stock and bonds of the reorganized company and cash to be paid under the reorganization plan for coupon scrip.

COATICOOK, QUE.—The Coaticook Water Co. has submitted a proposition to the council to sell its works and property, the price to be determined by arbitration. If the town does not wish to buy the works, the company will agree to extend the system, build a new reservoir, 40 ×60 ft., lay 8-in. pipe, new hydrants, etc. The company formerly offered to sell the works for $15,000.

SHELBURNE, ONT.—The council is considering a by-law authorizing an issuance of $25,000 in bonds for extending the mains. The water commissioners of Belleville, Ont., have asked for $2,000 for extending the mains. The town solicitor of Niagara Falls, Ont., is preparing an ordinance authorizing an issuance of $10,000 for a pumping engine, according to reports.

WINNIPEG, MAN.—H. N. Ruttan, Cy.Engr., is reported to have recommended that the city purchase about 425 tons of water pipe and castings, at an estimated cost of about $190,000.

COLUMBIA VALLEY, B. C.—Jay P. Graves, of Vancouver and Grand Forks, is reported to have applied for a franchise to construct and operate water-works, an electric plant and an electric railway. He asks in return a bonus of $30,000.

GRAND FORKS, B. C.—Jay P. Graves, Gen. Mgr. Granby Smelter, of this place and Vancouver, B. C., is reported to have submitted a proposition to the city to lease the municipal works and electric plant for 25 years. Mr. Graves offered to pay the city $70,000, besides spending $30,000 in improvements to both plants. The question of leasing the plants will soon be voted upon by the people.

SEWERAGE.

BOSTON, MASS.—Bids are asked by the board of harbor and land commissioners, Room 13, State House, until July 26, for building 13 wooden catchbasins.

NEWBURYPORT, MASS.—Reports state that the council is considering the question of constructing a system in Ward 6.

SOUTH FRAMINGHAM, MASS.—We are informed that the city will start about August 15 to construct 1½ miles of 18-in. cast-iron sewer, running up the valley of the Beaver Dam Brook. John H. Goodell, Chn. Sewer Com.

WEBSTER, MASS.—The council has let the contract for constructing the Granite St. outfall sewer to C. E. Trumbull & Co., Boston, at $4,895.

BRISTOL, R. I.—Bids are asked until July 31 for the purchase of $55,000 in bonds for constructing sewers. Geo. H. Peck, Cy. Treas.

BRIDGEPORT, CONN.—City Surveyor Scofield has completed surveys and prepared maps for the proposed trunk sewer, to be constructed in Norman St., at a cost of about $40,000.

GREENWICH, CONN.—Bids are asked until August 20 for constructing about 3,500 ft. of pipe sewer, as stated in our advertising columns. S. E. Minor, Borough Clk.

NEW BRITAIN, CONN.—The sewer committee is considering the question of building a sewer in Greenwood St., according to reports.

NEW HAVEN, CONN.—Bids are asked until July 30 for constructing sewers in Grove, Ferry and Frank Sts. and in Edgehill Road. C. W. Kelly, Cy. Engr.

SOUTH NORWALK, CONN.—At a special election held July 17 the people voted to issue $16,000 in bonds for constructing sewers in Whistleville.

BATH, N. Y.—The question of building a sewer from the county buildings to the Cohocton River is being considered, according to reports.

ROCHESTER, N. Y.—The street and sewer committee is considering the question of enlarging the West Ave. sewer. Alderman Parsons, Chn.

SCHENECTADY, N. Y.—The council will shortly receive bids for constructing sewers in McClellan, Mohawk, and Strong Sts. and Duane Ave.

SYRACUSE, N. Y.—R. R. Stuart, Cy. Engr., is said to have estimated the cost of building the Chemung St. sewer at about $22,400.

CALDWELL, N. J.—It is stated that the council will soon secure plans for a sewerage system for this town.

ELIZABETH, N. J.—Bids are asked until August 15 for constructing 680 ft. of 30-in. pipe sewer, 1,192 ft. of 48-in. brick sewer, 575 ft. of 24-in. pipe, 520 ft. of 20-in. pipe, 280 ft. of 18-in. pipe, 290 ft. of 15-in. pipe sewers. W. A. Luster, Jr., Cy. Surv.

HADDONFIELD, N. J.—The question of building a sewerage system is being discussed, according to reports.

MADISON, N. J.—Reports state that this city contemplates building a system to cost about $40,000, and also erecting a plant with a capacity of 300,000 gallons a day, to cost about $10,000.

ALLEGHENY, PA.—The committee on public works has let the contract for constructing a sewer in Island Ave. to Cronin & O'Herron, at $3,414.

PITTSBURG, PA.—The contract for constructing an emergency sewer in Fifth Ave., has been let by Geo. W. Wilson, Dir. Dept. Pub. Wks., to Keeling & Ridge, Forbes and Miltenberger Sts., at $5,500.

SOUTH BETHLEHEM, PA.—We are informed that the National Sanitary Sewer Co. has applied for a franchise to construct a system in this borough. A. C. Graham, Burgess; Thos. Gawey, Town Clk.

ALEXANDRIA, LA.—The contract for furnishing a quantity of 22-in. sewer pipe has been let to the Blackmer & Post Pipe Co., Equitable Bldg., St. Louis, Mo., at $5,510.

CLEVELAND, O.—The director of public works has been directed to advertise for bids for constructing sewers in a number of streets.

CLEVELAND, O.—Bids are wanted until Aug. 13 for the purchase of $200,000 in bonds for sewers. Chas. P. Salen, Cy. Audr.

DAYTON, O.—Bids are asked until August 20 for constructing about 9,055 ft. of 8-in., 1,800 ft. of 12-in. and 2,150 ft. of 15-in. pipe sewers, in Sewer District No. 4. R. H. Ferguson, Cy. Comptroller; C. A. Herbig, Pres. Bd.

LAKEWOOD, O.—Bids are asked until Aug. 13 for constructing about 7¼ miles of 6 to 24-in. pipe sewers, average cut about 10 ft., to cost about $100,000, also a sanitary plant and syphon line, according to plans prepared by Snow & Barbour, 1120 Tremont Bldg., Boston, Mass. R. J. Wood, Hamlet Engr.

LAKEWOOD, O.—Bids are asked until Aug. 17 for the purchase of $112,500 in bonds for sewers in this hamlet. John French, Clk.

CHICAGO, ILL.—Bids are asked until Aug. 14 for furnishing the materials and constructing a conduit from the outfall on Halsted St. to Butler St.; also to install and maintain a temporary pumping plant, consisting of two 10-in. centrifugal pumps, with necessary piping, etc. L. E. McGann, Comr. Pub. Wks.

PRINCETON, ILL.—Bids are asked until August 1 for constructing about 4,410 ft. of 10-in. and 6,200 ft. of 8-in. the sewers, with 38 brick manholes, as stated in our advertising columns. C. A. Palmer, Pres. Bd. Local Improvements; S. L. Bradley, Chn. Sewerage Com.

SAUK CITY, WIS.—Bids are asked until August 1 for furnishing all material, except pipe, and laying about 1,570 ft. of 24-in. pipe sewers, as stated in our advertising columns. Plans are on file at the office of Engineering News, 1636 Monadnock Block, Chicago, Ill. C. F. Ninnan, Village Clk.

HIGHLAND PARK, IA.—Press reports state that this town is considering the question of constructing a system.

OTTUMWA, IA.—Bids are asked until July 31 for constructing 2,200 ft. of 91-ft. brick sewers, 850 ft. of 7-ft. and 650 ft. of smaller-sized brick sewers. J. G. Brady, Cy. Engr.

ST. PAUL, MINN.—Bids are asked until August 2 for constructing about 740 ft. of 15-in. and 706 ft. of 12-in. pipe sewers in Blair and Elfelt Sts. Wm. L. Ames, Pres. Bd. Pub. Wks.; C. H. Bronson, Clk.

COLUMBIA, MO.—Bids are asked until July 31 for constructing about 18,000 ft. of brick and pipe sewers, to cost about $18,500, in this city. J. S. Bicknell, Clk.; Hiram Phillips, Engr., Oriel Bldg., St. Louis, Mo.

FRANKLIN, TEX.—Tom M. Taylor, County Judge, will receive bids for a sewerage system for the county buildings.

PORTLAND, ORE.—City Engineer Chase is said to have completed plans for the proposed Beech St. sewer. Preliminary estimates will be prepared at once.

AUBURN, CAL.—Reports state that the question of issuing $10,000 in bonds for constructing sewers is being considered.

BERKELEY, CAL.—The council has passed a resolution of intention to construct a 6-in. pipe sewer in Edith St. M. L. Hanscow, Town Clk.

PASADENA, CAL.—We are informed that several miles of 8 to 12-in. pipe sewers, average cut 9 ft., will be built under the general street laws and by districts from time to time this season. Herman Dyer, Cy. Clk.; W. B. Clapp, Cy. Engr.

REDDING, CAL.—The council is said to be considering the question of issuing $13,000 in bonds for sewers and street improvements.

GARBAGE DISPOSAL—STREET CLEANING

BANGOR, ME.—The following bids were received by the council July 17 for furnishing a system of garbage disposal: Dixon Garbage Crematory Co., Toledo, O., submitted two proposals, the first for a furnace 53½ ft. long, having a capacity of 15 tons every 24 hours, with an iron stack, $6,500; with stack made of part brick and iron, $6,950. This proposal follows substantially the conditions of the specifications. The second proposition is for an iron furnace 38½ ft. long, having a capacity of 25 tons, $5,500; brick and iron, $6,000. The Wright Crematory Co., Chicago, Ill., submitted a proposal for an iron furnace, with steel smoke stack, 75 ft. high and 3 ft. in diameter, $6,550. This company guarantees to burn all kinds of refuse, without smoke or odor. The Morse-Boulger Co., New York, submitted figures under three propositions. First, a furnace 28 ft. long, 10 ft. broad, guaranteed to burn 15 to 20 tons of garbage every 10 hours, $4,850; second, furnace of the same size as above, to be covered, frame of wood and corrugated iron roof, walls and approaches erected, steel smoke stack, $5,850; third, iron furnace, walls and approaches, patent steel chimney, 70 ft. high, self-supporting chimney to be lined one-half way up with fire brick, 36-in. flue, base bolted down to brick foundation, $6,850.

CAMDEN, N. J.—Bids are asked until Aug. 7 for furnishing a two-horse street sweeping machine and three one-horse iron garbage carts. C. H. Ellis, Jr., Chn. Com.

SOUTH ORANGE, N. J.—Bids are asked until Aug. 20 for performing scavenger work for one year, according to reports. John Williams, Village Clk.

MILWAUKEE, WIS.—The council committee on health has recommended the rejection of all bids recently received for building a garbage disposal plant. Alderman Wittig and the committee will at once make arrangements for again advertising for bids for a disposal system. Carl Runge, Cy. Attorney.

SALT LAKE CITY, UTAH.—The sanitary committee of the council has been authorized to investigate the subject of a new crematory to replace the plant destroyed by fire July 10. The old crematory cost about $12,000, but it is thought by Dr. Beatty, of the committee, that a new one can be built for $6,000.

STREETS AND ROADS.

SACO, ME.—The street committee will, it is said, soon ask for bids for macadamizing Main St.

BOSTON, MASS.—The city has sold $791,000 in bonds for highway improvements, etc. Alfred Turner, Cy. Treas.

CAMBRIDGE, MASS.—We are informed that the city will construct about 8,500 sq. yds. of brick pavement on concrete foundation by day labor this season. L. M. Hastings, Cy. Engr.

SALEM, MASS.—It is stated that the street committee will purchase a new steam road roller at once.

ANSONIA, CONN.—The contract for constructing a macadam road in this city has been let to the R. D. Pierce Co., 106 Bank St., Bridgeport, at about $4,500.

SOMERS, CONN.—Bids are asked by the board of selectmen until July 30 for constructing three sections of macadam road in this town.

WATERBURY, CONN.—Bids are asked until July 31 for about 3,000 sq. yds. of brick pavement on North Main St., 1,800 sq. yds. on North Willow St., 1,200 sq. yds. on Spring St., and about 1,440 sq. yds. of sheet asphalt pavement on West Main St., as stated in our advertising columns. R. A. Cairns, Cy. Engr.

ALBANY, N. Y.—The following bids were received July 21 by E. A. Bond, State Engr., for constructing the Mamaroneck and White Plains Road: Daniel Murray, Port Chester, $23,160; M. Decicco, Larchmont, $24,974; McCabe & Duffy, White Plains, $27,643; C. H. Luijens & Son, Long Island City, $27,713; G. A. Rogers, Plattsburg, $31,000; for constructing the River Road in Erie county: German Rock Asphalt Co., D. S. Morgan Bldg., Buffalo, $16,448; W. T. Leighton, Rochester, $17,300; Chambers & Casey, Powers Block, Rochester, $17,900; Thomas Brown, 1127 Niagara St., Buffalo, $18,980.

BUFFALO, N. Y.—We are informed that the advertisement published by the board of public works, asking for bids for paving and repairing a number of streets has been withdrawn and will be published again later.

COHOES, N. Y.—The public improvement committee has let the contract for the extension of High St. to Martin Murray, of Albany, at $16,591.

CORTLAND, N. Y.—Bids are asked until August 1 for paving Groton Ave. with sheet asphalt, as stated in our advertising columns. Fred. Hatch, Cy. Clk.

DUNKIRK, N. Y.—Bids are asked for about 227 cu. yds. of excavation, 1,064 sq. yds. of paving, 1,061 lin. ft. of curbing, and 1,028 lin. ft. of drain tile in East Third St., as stated in our advertising columns. W. C. Baumgartner, Cy. Clk.

ROCHESTER, N. Y.—The following bids have been received by the board of contract for paving Central Ave. with Medina block: Whitmore, Rauber & Vicinus, 279 S. St. Paul St., $22,049; F. A. Bretsch, $22,370; Lauer & Hagaman, 458 So. Clinton St., $22,892; Brayer & Albaugh, 448 Jay St., $23,751; H. N. Cowles, $24,061; Thomas Hola-

han, 96 Pennsylvania Ave., $24,379; Chambers & Casey, Powers Block, $24,449; H. B. Hooker & Son, 837 N. St. Paul St., $23,307; William H. Jones & Son, 458 So. Clinton St., $24,515. Whitmore, Rauber & Vicinus, 279 South St. Paul St., submitted the lowest bid at $1,455 for grading and curbing Pennsylvania Ave.

CAMDEN, N. J.—Bids are asked until August 17 for repaving Kaighn Ave. with belgian blocks. Chas. H. Ellis, Jr., Chn. Com. on Streets.

NORTH BERGEN, N. J.—Bids are asked until August 2 for grading Liberty St. and Pierce Ave. Emil J. Foerch., Township Clk.

PATERSON, N. J.—Bids are asked until August 6 for macadamizing Mount Prospect Ave., in Acquackanonk township. Geo. M. Botbyl, County Clk.

EDGEWOOD, PA.—Bids are asked until July 30 for about 1,400 cu. yds. of excavation, 1,700 lin. ft. of curbing, and 2,700 sq. yds. of paving in Washington St. R. L. Smith, Borough Engr., 1011 Park Bldg., Pittsburg.

ERIE, PA.—Bids are asked until July 26 for constructing about 17,771 sq. yds. of brick pavement on Second, Third and Fourth Sts. Benjamin E. Briggs, Cy. Engr.

WILMINGTON, DEL.—Reports state that the water department has ordered Harrison, Market, Seventh, Tatnall and Eleventh Sts. to be paved.

WASHINGTON, D. C.—Bids are asked by the district commissioners until August 4 for grading and regulating several suburban streets, as stated in our advertising columns, and until Aug. 11 for about 10,000 cu. yds. of street grading, as stated in our advertising columns.

NORFOLK, VA.—The city council has appropriated $144,541 for paving and improving twelve streets.

ASHEVILLE, N. C.—We are informed that the contract for about 15,154 sq. yds. of Reynold's paver has been let at $30,763. B. M. Lee, Cy. Engr.; M. W. Robertson, Cy. Clk.

BIRMINGHAM, ALA.—The council has passed an ordinance providing for the paving of 17th St.

CLARKSVILLE, TENN.—We are informed that this city contemplates paving two streets with asphalt or brick, but that no definite steps have yet been taken. C. H. Bailey, Recorder.

CANTON, O.—Bids are asked until August 4 for about 23,310 cu. yds. of excavating, 8,690 lin. ft. of 6 × 20-in. curbing, 37,470 sq. ft. of sawed flagstone and 900 sq. yds. of block paving. P. H. Weber, Cy. Engr.; L. L. Ley, Cy Engr.

CINCINNATI, O.—The board of legislation has been petitioned to pave Imperial St. with macadam, to cost about $6,050, and Reading Road with granite, to cost about $87,245.——The contract for keeping John St. in repair for five years has been let to the Trinidad Asphalt Paving Co. at $11,000.

GALLIPOLIS, O.—Bids are asked until August 16 for paving Locust, Cedar, Second and Third Sts. with brick. Specifications on file at the office of Engineering News, 220 Broadway, New York, N. Y. T. E. Bradbury, Cy. Clk.

HAMILTON, O.—It is stated that the contract for paving North Third and Second Sts. will be let shortly.

WAPAKONETA, O.—Bids are asked until Aug. 10 for grading and graveling the Santa Fe Pike. Samuel Craig, Engr.

WELLSVILLE, O.—We are informed that no definite steps have yet been taken toward the proposed street improvements. A. G. White, Cy. Engr.

WYOMING, O.—The council has let the contract for improving the Springfield Pike, to the Louis Drach Construction Co., at $20,700, and for improving Burns Ave. All streets north of Wyoming Ave., and all streets south of Wyoming Ave., to A. Colter at $8,537, $17,583 and $29,200 respectively.

YOUNGSTOWN, O.—The council has passed resolutions providing for the paving and grading of a number of streets. Wm. I. Davies, Cy. Clk.

INDIANAPOLIS, IND.—Bids are asked by the board of public works until July 27 for improving six streets; until July 30 for improving seven streets, and until August 1 for improving ten streets.

GRAND RAPIDS, MICH.—We are informed that this city is advertising for bids for the sale of $100,000 in bonds, to be used for improving the streets with gravel, macadam or paving. L. W. Anderson, Acting Cy. Engr.

ST. JOSEPH, MICH.—We are informed that the council has appropriated $20,000 for street paving. C. S. Rigby, Cy. Engr.; L. D. Townsend, Clk. By an error this item was published in our issue of July 5 under the heading of St. Joseph, Mo.

CHICAGO, ILL.—Bids are asked until August 14 for improving 39th St. L. E. McGann, Comr. Pub. Wks.

BRAINERD, MINN.—Bids are asked by the county auditor until August 7 for furnishing one stone crusher, capacity ten tons an hour, and five-ton road roller.

ST. PAUL, MINN.—Bids are asked by the board of public works until July 30 for about 3,533 sq. yds. of asphalt pavement on Jackson St.; Wm. L. Ames, Pres.; C. H. Bronson, Clk.

SPOKANE, WASH.—Bids are asked by the board of public works until August 3 for improving Washington St. Robert E. Clarke, Secy.

SMITHS FALLS, ONT.—Bids are asked until July 30 for constructing about 51,960 sq. yds. of cement concrete sidewalks. B. E. Sparham, Town Clk.; Willis Chapman, Ch. Engr., 103 Bay St., Toronto.

WALKERVILLE, ONT.—Bids are asked until July 31 for constructing about 28,028 sq. ft. of granolithic sidewalks on several streets. C. H Robinson, Town Clk

MANUFACTURING PLANTS.

ITHACA, N. Y.—The Portland Cement Co. is reported to have purchased a site at Lake Side, where the company will establish a $200,000 plant, employing about 300 men. Work will be started immediately, and when completed the plant will have a capacity of 1,500 barrels a day.

PITTSBURG, PA.—It is stated that Henry C. Fox, Pres., has announced that the plants of the National Glass Co., now located at Summitville, Greentown, Dunkirk, Marion and Albany, Ind., will be removed to the Pittsburg district.

BALTIMORE, MD.—A site for a fertilizing plant has been purchased by Armour & Co. at Locust Point. It is stated work will be started at once, and the factory will be ready for operation by Oct. 1.

GOLDVILLE, S. C.—It is stated that J. S. Bialock will build a yarn mill on his plantation at this place. The mill will be capitalized at $80,000.

MONROE, GA.—The stockholders of the Monroe Guano Co. have authorized an expenditure of $8,000 on improvements to the company's plant.

HUNTSVILLE, ALA.—It is stated that a company of local tanners have interested capitalists in a project to build a large tannery in this city.

LEXINGTON, KY.—It is stated that the Kentucky Pasteurizing Co., recently organized, with $100,000 capital stock, will begin work at once on a plant to be located in this city. Geo. H. Davison is interested.

CHATTANOOGA, TENN.—It is stated that the Chattanooga Steel Roofing Co. has made preparations for a large addition to its plant, between Centre and White Sts.

BARBERTON, O.—The Columbia Chemical Co. has awarded the contract for building a $300,000 addition to its plant at this place, to Stewart & Bishop, Pittsburg, Pa.

CLEVELAND, O.—The American Steel & Wire Co. is reported to be preparing to build an extensive plant in this city.

MARION, IND.—Local papers state that Gilchrist, Gilchrist & Goldrich are preparing to build a three-magazine nitro-glycerine factory near Alexandria.

MILWAUKEE, WIS.—The Patton Paint Co. has been incorporated with $300,000 capital stock, and will build a large factory in this city. The company will use the building of the James E. Patton Co., together with a new building, to be 50 × 140 ft., and four stories high. James E. Patton, Pres.; James E. Patton, Jr., Secy.

LOS ANGELES, CAL.—Preparations are being made for the erection of a factory to manufacture tiles, by the Pacific Art Mfg. Co., recently organized. Plans for the plant were drawn by Chas. Ernest, Arch. The cost of the plant is estimated at $350,000, and about 1,000 hands will be employed. G. J. Griffith, Pres.; Geo. Easton, Vice-Pres.

GAS PLANTS.

NEW HAVEN, CONN.—The Winchester Repeating Arms Co. will erect a gas works at its plant, to cost about $8,000.

MECHANICSVILLE, N. Y.—Press reports state that the Halfmoon Light, Heat & Power Co. will erect a gas plant at once on Canal St.

TIFFIN, O.—Bids are asked until July 30 for lighting this city with gas. J. B. Ehrenfried, Cy. Clk.

TOLEDO, O.—The Northwestern Ohio Gas Co. is said to have let the contract for its new building on Spielbush Ave., to Herman & Slimmers.

ANDERSON, IND.—The Anderson Fuel & Supply Co. will erect a pumping station, to cost about $50,000, according to reports. George Lilly, Pres.

KOKOMO, IND.—It is stated that J. M. Leach & Co. will erect a gas pumping plant at Swayzee.

WALLA WALLA, WASH.—The council is said to have granted a franchise to an Eastern company to erect a gas plant.

SANTA CLARA, CAL.—The following bids were received July 6 for erecting a gas plant: Western Gas Construction Co., Fort Wayne, Ind., $11,314; California Light & Fuel Co., L. P. Lowe, Mgr., 543 Parrott Bldg., San Francisco, $11,000 (accepted). This is for gas-making plant with capacity of 3,000 ft. per hour, to make water gas. There is included a 20,000-ft. gas holder (steel holder in wooden tank), also oil tank of 15,000 gals. capacity, small engine, blower, pipe connections to holder. No building or steam boiler. Excavation and foundation work to be furnished by the town. No mains included in this contract.

MISCELLANEOUS CONTRACTS

WHARF, ETC.—Fort Caswell, N. C.—Bids are asked until August 15 for constructing a wharf and railroad track at this post. P. P. Bishop, Q. M.

LUMBER.—New York, N. Y.—Bids are asked by the department of parks, Arsenal, Central Park, until Aug. 2, for furnishing a quantity of lumber for park work in Manhattan.

SEA WALL.—West Point, N. Y.—Bids are asked until August 24 for erecting a sea wall at the river front, as stated in our advertising columns. J. B. Bellinger, Q. M., U. S. M. A.

REPAIRING VESSEL.—Washington, D. C.—Bids are asked by the district commissioners until August 10 for furnishing a new boiler and making repairs to the harbor boat "Vigilant."

CEMENT.—Little Rock, Ark.—Bids are asked until Aug. 22 for furnishing 5,000 barrels of American Portland cement, as stated in our advertising columns. Capt. Robert McGregor, U. S. Engr.

DREDGING.—New York, N. Y.—Bids are asked until August 4 for about 12,000 cu. yds. of dredging at the navy yard. M. T. Endicott, Ch. Bureau Yards and Docks, Navy Department, Washington, D. C.

LOCK, ETC.—Charleston, S. C.—Bids are asked until August 23 for constructing a lock and abutment in Congaree River, near Columbia, S.C., as stated in our advertising columns. Capt. J. C. Sanford, U. S. Engr.

PIER.—Huron Harbor, O.—Jos. J. Churchyard, 648 Clinton St., Buffalo, N. Y., submitted the lowest bid July 21 for rebuilding the west pier at Huron Harbor at $18,572. The itemized bids will be published next week. Col. Jared A. Smith, U. S. Engr., Cleveland.

NAVAL SUPPLIES.—Mare Island, Cal.—Bids are asked until August 7 for furnishing a quantity of machine tools, sheet steel and sheet iron, glue pots, copper measures, etc., at the Mare Island navy yard. A. S. Kenny, Paymaster General, U. S. N., Washington, D. C.

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked until July 31 for furnishing a quantity of naval supplies at the Port Royal, S. C., naval station, and at the Washington, D. C., and New York, N. Y., navy yards. A. S. Kenny, Paymaster General, U. S. N.

MONUMENTS.—Pittsburg Landing, Tenn.—Bids are asked by the Ohio Shiloh Battlefield Commission, State House, Columbus, O., until August 15, for erecting a number of monuments at the Shiloh National Military Park, Pittsburg Landing. R. B. Brown, Pres., Zanesville, O.

ERECTING LIGHTHOUSE.—Norwalk, Conn.—Plans and specifications for the new Green's Ledge lighthouse, Norwalk Harbor, bids for which will be received until August 14, as stated in our advertising columns, are on file at the office of Engineering News, 220 Broadway, New York, N. Y.; Lieut. Col. D. P. Heap, U. S. Engr., Tomokinsville.

METAL WORK, FOR LIGHTHOUSE.—San Francisco, Cal.—The following bids were received July 5 by Maj. Chas. E. L. B. Davis, U. S. Engr., Room 9, Flood Bldg., for furnishing the metal work for the fourth order light at Point Arguello, Cal.: The Ellicott Machine Co., Baltimore, Md., $1,340; Atlanta Machine Works, Atlanta, Ga., $1,485; New Jersey Foundry & Metal Co., New York, N. Y., $1,550 (informal by telegraph); P. F. Dundon's Iron Works, San Francisco, $2,943.

PIERS.—New York, N. Y.—The reports stating that the North German Lloyd Steamship Co., Gustave Schwab, Agent, 5 Broadway, will at once let contracts for rebuilding its burned piers in Hoboken of steel are incorrect. The company's engineer is consulting with Geo. S. Greene, Jr., 24 East 42d St., New York, and Edward Atkinson, of Boston, in regard to the best methods of construction. No action is likely to be taken for some time. J. A. Bensel, Ch. Engr. Dock Dept., New York, is reported to be in favor of a combination iron and concrete pier, with asphalt over all. The members of the board have been waiting, it is said, to find out if the steamship companies desire non-destructible piers before taking any action. When the first application is filed with the board the commissioners will discuss the whole matter and adopt the best plan submitted to them. The commissioners are in favor of iron or steel piers, and, it is reported, will build them as rapidly as possible whenever requested to do so.

WHARVES, ETC.—Boston, Mass.—The following bids were received July 12 for constructing two pile wharves on Commonwealth flats at South Boston, by the Board of Harbor and Land Comrs., F. M. Wales, Clk., 13 State House: Jos. Ross, 28 School St., Boston, (1) $10,[illegible] (2) $2,773; Wm. J. Lawler, 16 City Sq., Charlestown, Mass., (1) $11,096, (2) $2,834; Thomas & Connor, Milton, Mass., (1) $9,475, (2) $2,750; J. P. Cavanagh, 166 Lincolnshire St., Boston, (1) $11,232, (2) $3,842; Thos. F. [illegible]ngles, 21 Carmel St., Chelsea, Mass., (1) $20,800, (2) $[illegible]; W. H. Ellis & Co., 479 Meridian St., E. Boston, (1) $11,[illegible]900, (2) $3,700; Aug. Bellevue & Co., 95 Milk St., Boston, (1) $9,462, (2) $2,595 (accepted at $12,057); Wm. L. [illegible]ler, 17 Milk St., Boston, (1) $11,433, (2) $3,439; Benj. [illegible]ng, 95 Milk St., Boston, (1) $11,438, (2) $2,904; Geo. H. [illegible] & Co., 95 Milk St., Boston, (1) $11,500, (2) $3,200; and the following for about 35,000 cu. yds. of dredging in [illegible] Harbor: New England Dredging Co., Boston, $[illegible]; Augustus B. Martin, Boston, $12,800 (accepted).

BATTLESHIPS.—Washington, D. C.—Bids are asked by the navy department until November 15 for constructing three sheathed and coppered battleships and two without sheathing and coppering. The five ships will be identical with the exception of the batteries. Three will be built with superposed turrets, carrying 12-in. guns in the lower and 8-in. guns in the upper turrets. The other two will have the 12-in. guns in two ordinary turrets and the eight 8-in. guns in four turrets arranged quadrilaterally. The general plans will be ready for examination in September next. Bidders are especially invited to submit their own plans under Class 2, including their own arrangement of ordnance. The department reserves the right to change within six months after contract the arrangement of battery, turrets and armor. The vessels are to be of 16,000 tons for the unsheathed and 15,000 tons for the sheathed vessels, the speed being nineteen knots and the coal capacity 1,900 tons. The time allowed for the completion of the ships is thirty-six months, under heavy penalties ranging from $300 to $600 a day for delay. The ships will have a belt of waterline armor 8 ft. wide and from 8 to 11 ins. thick, running clear from bow to stern. The turrets will have a maximum thickness of 11 ins. The ships will have the usual protective deck and cellulose belt, and no woodwork is to be admitted except where indispensable. The engine horse-power is placed at 19,000, with triple expansion four-cylindered twin screw engines, supplied by 24 water tube boilers. Electricity will furnish the motive power for the turrets and auxiliaries.

FOREIGN CONTRACTS AND EXPORT NEWS.

ELECTRIC POWER PLANT.—Melbourne, Australia.—Reports state that the Victoria Light, Heat & Power Co. has been organized to build and operate power plants and furnish light and power to towns within a radius of ten miles, and to build an electric railway, to include a tunnel under the Yarra River.

ELECTRIC TRAMWAYS.—Edmundson, Eng.—The Edmundson Electricity Corporation, Ltd., proposes to increase its capital stock from $1,000,000 to $2,000,000 for making extensions and improvements to its power and tramway systems in Grantham, Stamford, Weybridge, Redruth, etc. John R. Wigham, J. P., Chn.

RAILWAY.—Warsaw, Russia.—The United States Consul at St. Petersburg states that the Warsaw-Vienna Ry. Co. has been authorized to build a line from Warsaw, via Lodz, to Calish and Skalmerlitze, as well as a connecting line between the new one and the Vistula Ry. in Warsaw. The road is to be constructed within three years, and will be about 165 miles long. Th. Daragne, Engr.-in-Ch.

POWER PLANTS.—Mexico.—Reports state that Thos. Carter, an American electrical engineer, is making an investigation of the feasibility of establishing an electric light and power plant in Guanajuato, population, 60,000, for an American syndicate. A company to build a power plant on the San Juan River, between Parral, 40 miles distant, and Chihuahua, 80 miles, to which places power will be transmitted, has been organized by R. M. Burke of Chicago, with a capital of $1,000,000. Mrs. Carmendel Moral has been granted a concession to build a power plant on the River Lerwa in Michoacan and Jalisco.

RAILWAY.—Dahomey, Africa.—The "Journal des Transports" reports that the Committee of Public Works for the Colonies, at its meeting on June 11, approved the report of M. Bouttevillle, the Inspector-General, recommending the acceptance of a project for the construction and working of the railway in Dahomey from the coast to the River Niger. This railway is to be constructed at the expense of the colony alone, the budget showing an excess of receipts of about $155,000. The line has been surveyed from Cotonou up to the north of Dahomey proper, with a branch to Ouidah across Alada and the province of Abomey. A cursory survey has been made of the line as far as Tchaourou, half way to the Niger.

RAILWAY, ETC.—Haiti.—W. F. Powell, U. S. Minister, Port au Prince, Haiti, has suggested that a railway be built connecting the cities of the island. The distance from the capital to Port de Paix is 150 miles, and to Cape Haitien 180 miles. Traveling now has to be done by horseback or by steamers. Some of the valleys are considered rich in mineral resources, and the lands are fertile. The government has made concessions to several parties to build railways, one in the south to the salt lakes, about 50 miles, which will eventually connect the capitals of Haiti and Dominica. A short line is now being built from Cane Haitien to Grand Riviere. The government grants to the concessionaires all the benefit that will accrue from them. Some of the old mines are reported as again being opened. Anton Jaegerhuber, an American citizen, of Port au Prince, has been granted concessions to open certain mines and also to construct two railway lines thereto.

ELECTRICAL WORKS.—Norway.—Reports state that at Arendel a German company has subscribed $250,000 capital for electrical and other engineering developments, including calcium carbide works. A great development in the utilization of the waters of the country is being carried on, and a number of industrial undertakings seeking the advantages which this cheap motive power offers. In the Frederikstad district the Kellner-Partington Paper Pulp Co. has erected two extensive power stations at the river side, a carbide factory, an electric railway, and other mechanical works. The two stations are equipped for an output of 2,000 HP. and 5,000 HP. respectively. Schuckert & Co., of Nuremberg, are shareholders in this undertaking. Extensive calcium carbide works are being erected at Skiensfjord, where this new industry will be carried on on an extensive scale. The municipal authorities of Stavanger have recently acquired waterfalls within a short distance, where a plant will be installed for generating current for light and power to the extent of about 1,700 HP.

PUBLIC WORKS.—Paraguay.—J. N. Ruffin, U. S. Consul, Asuncion, reports that the President has asked that Congress pass a law to create a fund of $500,000 yearly to construct roads, build bridges, deepen river channels, improve the fort, etc. The Finance Minister asks that 30% be devoted to the construction of roads and bridges and 70% to dredging rivers and constructing port walls. The pass at Angostura in summer is almost impassable for boats coming to Asuncion, involving expense in transferring cargo. The mayor of Asuncion has expressed a desire to have an American engineer open new streets and broaden old lines in the city. Arrangements are being made to build a narrow-gage railway from San Pedro to the river. There is an opportunity for good returns on capital

invested in the construction of short railways. Parties interested should communicate with Senor Carlos R. Santos, who speaks and writes English, and was the government delegate to the Philadelphia Commercial Congress. There is a plan to open up ports at the towns of San Pedro, Rosario, Villetta and Paso de Patria. Studies are being made to ascertain the cost of constructing a system of water-works for Asuncion.

BREWERIES.—Sapporo, Japan.—Reports state that contracts for furnishing the materials for the proposed brewery for the Sapporo Brewery Co., of Sapporo, Hokkaido, will be **let in New York in August. The brewery will have a capacity for 75,000 bbls. and will cost about $300,000.** The structure will have a system of earthquake-proof construction. H. Steinmann, 29 Broadway, New York, who is the consulting architect for this building, is also said to be negotiating for building a malt-house, to cost $50,000, under the Galland system, for a brewing company in Calais, France. Mr. Steinmann has let the following contracts for a brewery in Cape Town, to cost about $500,000, for the United South African Breweries Co., Ltd., of London: Milliken Bros., 11 Broadway, New York, 800 tons of structural steel and cast-iron, $71,500; Case Refrigerating Machine Co., 31 Main St., Buffalo, N. Y., three refrigerating machines and an ice-making plant, $21,000; Roebling Construction Co., 121 Liberty St., New York, fireproof construction, $6,800; the Bigelow Co., 15 Cortlandt St., New York, boiler plant, to consist of two 200-HP. boilers, $5,800; C. Beinert Stapleton, New York, carpenter work, $3,800; Pfaudler Vacuum & Fermentation Co., Detroit, Mich., brewing machinery. Further contracts are to be let at once.

CONTRACT PRICES.

WATER-WORKS.—Baker City, Ore.—The following bids were received July 2 for constructing gravity water-works, as advertised in Engineering News; the city will furnish the cement and the asphaltum for pipe coating and reservoir lining; J. C. White's bid under Proposal B calls for $4,500 to be added; add $4,500 also under Proposal D; contract awarded Fife & Conlan; J. G. Kelley, Engr., Portland, Ore.; D. W. James, Asst. Engr., Denver, Colo.:

Bids Received at Baker City, Ore., July 2, 1900, for Constructing Gravity Water-Works System.

Quantities.	Jacobsen-Bade Co., Portland, Ore.	Jos. Paquet, Portland, Ore.	Slemmons & Sweeney Portland, Ore.	Smith & Miller, Weiser, Idaho.	Costello & Broad, Spokane, Wash.	Smith & Howard, Portland, Ore.	Fife & Conlan, Spokane, Wash.	J. D. McCauley, Seattle, Wash.	J. C. White, Baker City, Ore.
Proposal B: Clearing	$105.00	$180.00	$300.00	$600.00	$203.40	$900.00	$450.00	$600.00	$500.00
Earth excav., etc. 12,000 cu. yds.	.495	.65	.40	.55	.424	.35	.45	.23	.40
Rock excav., etc. 2,000 " "	2.90	2.50	90	3.50	1.402	3.00	2.85	1.00	1.30
Riveted steel pipe:									
10-in., No. 14, hub 11,140 lin. ft.	.83	.89	.90	.803	.915	.87	.75	.875	.703
10-in., " flange 1,000 " "	.981	1.17	1.10	1.01	.927	1.05	.95	1.08	.843
10-in., No. 12, hub 5,000 " "	.95	1.03	1.00	.914	1.153	1.00	.865	.98	.821
10-in., " flange 670 " "	1.11	1.23	1.20	1.12	1.164	1.15	1.08	1.15	.958
8-in., No. 14, hub 1,300 " "	.69	.78	.80	.678	.836	.70	.615	.775	.525
8-in., " flange 100 " "	.81	.94	.95	.83	.848	.85	.79	.90	.715
8-in., No. 12, hub 1,000 " "	.81	1.00	85	.78	.859	.81	.745	.80	.663
8-in., " flange 100 " "	.93	1.06	1.05	.944	.870	1.00	.91	1.00	.80
8-in., No. 11, flange 1,500 " "	.975	1.10	1.09	.986	1.028	1.05	.95	1.05	.821
14-in. vitrified water pipe 23,400 " "	1.05	1.26	1.03	1.08	1.006	1.115	.98	1.07	.955
Reducers:									
14"x10"x25', st'l, No. 14 2 each	28.50	36.00	25.00	26.50	27.186	20.00	27.00	25.00	26.00
14"x8"x30', st'l, No. 14 1	28.50	37.00	25.00	26.50	27.46	25.00	27.00	25.00	26.00
10-in. riv. st'l Y's, No. 12 2 each	32.90	38.00	28.00	29.50	30.96	22.00	30.00	25.00	28.00
8-in., c.-i. Y's, flange 2 "	22.40	26.00	15.00	18.75	19.21	22.00	18.50	20.00	18.00
8-in. st'l T, No. 14, flange 1	21.36	25.00	15.00	19.00	17.99	20.00	17.00	17.50	17.00
10-in. " T's, No. 12, " 7 each	24.76	30.00	20.00	23.00	23.73	20.00	22.00	17.50	22.00
Gates: 14-in., hub 2 "	79.00	78.00	60.00	66.00	67.80	75.00	70.00	75.00	68.00
10-in., hub 5 "	44.00	40.00	27.50	33.00	33.90	45.00	39.00	60.00	38.50
10-in., flange 2 "	72.00	75.00	27.00	35.00	73.45	60.00	64.00	73.00	63.00
8-in., hub 2 "	31.00	35.00	15.00	21.50	28.25	25.00	26.50	40.00	25.00
8-in., flange 2 "	48.00	50.00	15.00	23.50	48.59	40.00	42.50	50.00	41.00
2-in. air valves 10 "	9.00	12.00	10.00	10.50	11.30	10.00	9.50	5.00	8.50
Manholes 14 "	21.00	39.00	19.00	20.00	24.86	30.00	22.00	15.00	14.00
Air inlets 21 "	3.50	6.00	5.00	3.25	3.39	5.00	1.50	15.00	9.00
Relief outlets 25 "	4.00	6.00	8.00	5.00	3.39	5.00	1.50	10.00	4.00
Gate shafts 4 "	8.50	11.00	15.00	25.00	16.95	20.00	5.50	10.00	10.00
Proposal C: Earth excav. 5,900 cu. yds.	.50	.65	.60	.60	.452	.60	.45	.22	.50
Concrete: Bot'm & slopes 300 " "	5.75	7.00	5.00	7.90	5.65	5.00	4.00	4.00	6.00
Coping 110 " "	7.68	8.00	6.00	11.00	6.78	6.00	5.00	5.00	6.00
Asphaltum on concrete 5,000 " "	.005	.03	.15	.002	.006	.02	.003	.05	.007
Excavation in well pit 420 " "	.50	.70	1.00	1.25	.678	.75	.60	.75	.75
Tunnel, earth, 4x4 ft. 100 lin. ft.	.50	3.00	1.00	5.00	1.695	1.00	2.50	1.00	3.00
Trenching, earth 150 cu. yds.	.50	.60	.35	.50	.452	.40	.25	.30	.50
Concrete in well pit 150 " "	6.00	7.00	10.00	10.00	6.102	6.00	5.00	4.00	6.00
Proposal D: Excav., etc. 12,000 " "	.295	.38	.30	.38	.237	.30	.25	.23	.20
12-in. riv. st'l pipe, No. 12 6,000 lin. ft.	1.12	1.18	1.15	1.08	1.30	1.125	.99	1.18	.948
12-in. wr't.-iron pipe* 1,600 " "	1.76	1.81	1.70	1.675	1.831	1.75	1.615	1.70	1.619
10-in. " " 3,760 " "	1.32	1.41	1.30	1.255	1.333	1.35	1.20	1.30	1.15
8-in. " " 3,140 " "	1.01	1.09	1.02	.95	1.028	1.05	.92	1.05	.873
6-in. " " 1,940 " "	.66	.75	.74	.68	.791	.75	.615	.75	.60
4-in. " " 15,000 " "	.41	.52	.50	.40	.418	.45	.375	.48	.369
4-in., rem'v'g & relay'g 3,350 " "	.05	.16	.20	.20	.102	.20	.06	.15	.20
Gates: 12-in., hub 3 each	50.00	54.00	48.00	46.25	47.46	50.00	45.00	50.00	43.00
10-in., hub 4 "	39.50	46.00	35.00	35.25	34.578	40.00	36.00	45.00	35.00
8-in., " 4 "	28.00	36.00	25.00	24.20	22.60	30.00	26.00	30.00	25.00
6-in., " 5 "	18.00	25.00	15.00	17.00	14.23	20.00	18.00	17.00	17.00
4-in., " 30 "	11.00	15.00	11.00	9.50	8.531	10.00	10.50	12.00	10.00
Hydrants, hub 30 "	33.00	40.00	38.00	35.50	36.16	35.00	31.00	37.00	31.00
Removing and resetting 8 "	35.50	10.00	4.50	12.50	5.68	10.00	5.00	10.00	4.50
Castings: Gate box 46 "	5.56	10.00	5.00	7.67	6.215	6.00	6.00	7.50	4.90
Special 10,000 lbs.	.08	.095	.068	.109	.076	.065	.065	.10	.08
Total	$95,992	$111,115	$96,798	$101,952	$94,076	$100,394	$87,792	$90,609	$91,893

*Either Matheson or Converse make.

REMOVING ROCK.—Ohio River, O.—The following bids were received by Maj. W. H. Bixby, U. S. Engr., Cincinnati, July 19, 1900, for removing rock bar in Ohio River at mouth of Licking River; excavation necessary to complete project, about 29,700 cu. yds.: I. V. Hoag, Jr., Allegheny City, Pa., $15 a cu. yd.; W. C. Jutte, Pittsburg, $5.40; Pat Halloran and G. F. Stickney, Paducah, Ky., $1.94; F. H. Kirchner & Co., Cincinnati, $3.84; Wm. A. Kirk, Madison, Ind., $3.45.

WATER PIPE.—Cleveland, O.—The following bids were received by the council July 13, 1900, for furnishing 720 ft. of 48-in. riveted steel pipe for the new pumping station: the bids of the Kilby Mfg. Co. and the Chicago Bridge & Iron Co. were informal; contract let to J. H. Webster, assignee of the Variety Iron Works Co., Cleveland; (1) is for Exhibit "A," in sections; (2) for Exhibit "B," continuous riveted:

	1.	2.
Variety Iron Works Co.	$12,400	$9,840
William B. Pollock Co.	13,750	11,150
Cleveland Steam Boiler Works	14,463	12,550
H. E. Teachout Boiler Works	14,935	13,300

CREOSOTE BLOCKS.—Cleveland, O.—The following bids were received by the department of public works July 11, 1900, for furnishing creosoted blocks and planking for the Superior St. viaduct: Michigan Pipe Co., $49 per 1,000 sq. ft.; U. S. Wood Preserving Co., $53.32; Chemical & Creosote Co., $44.50; Walworth & Neville Mfg. Co., $50.40. White oak sheeting—Arthur L. Mix, $25.68; Work & Yend, $24.30; J. W. Bennett, $23.62. There will be required 92,500 sq. ft. of blocks and 101,900 sq. ft. of planking.

SEWERS.—Amsterdam, N. Y.—The following bids were received July 19 for constructing a brick and pipe sewer; trench mostly earth, 11 and 9 ft. in depth; bid Chas. G. Messenger for 435 ft. of 36-in. pipe sewer accepted; F. E. Crane, Supt. Sewers:

Bids Received at Amsterdam, N. Y., July 19, 1900, for Constructing a Brick or Pipe Sewer.

Quantities.		Chas. G. Messenger, Amsterdam.	Eveline & De Nello, Lansingburg.	Martin Murray, Troy.	Harrington & Beach, Troy.	Baker & Judson, Gloversville.
36-in. brick sewer	435 lin. ft.	$5.00	$6.00	$5.25	$7.20	$7.00
36-in. pipe sewer	435 " "	5.10	6.00	6.75	6.90	7.00
24-in. " "	20 " "	2.50	1.10	2.25	3.00	1.50
15-in. " "	100 " "	1.20	.40	1.75	2.20	.85
8-in. " "	30 " "	.50	.10	.80	1.40	.50
63 x 42-in. brick sewer	1,029 " "	7.30	7.40	7.75	8.90	9.00
Manholes	5 each	38.00	40.00	30.00	40.00	75.00
Inlet	1	20.00	20.00	10.00	20.00	45.00
Catchbasins	2 each	43.00	75.00	50.00	50.00	60.00
Masonry	80 cu. yds.	6.00	6.50	12.00*	7.50	7.00
Excavation for wall	150 " "	.30	1.50	....	2.50	3.00
Coping	20 lin. ft.	1.50	.50	....	2.50	2.00
Hemlock in place	1,500 ft. B.M.	24.00	24.00	22.00	40.00	30.00
Total		$10,737	$11,384	$12,338	$13,807	$13,990

*Including excavation and coping.

DEEP WELL.—Fort Carroll, Md.—The following bids were received July 20, 1900, for sinking a 6-in. tubular deep well at Fort Carroll; Capt. T. B. Lamoreux, A. Q. M., Equitable Bldg., Baltimore, Md.:

Items.	Frank D. Rust, Ithaca, N. Y.	Downin Artesian Well Co., Baltimore.
Sinking well, complete, cased:		
1 to 200 ft.	$6.00	$5.00
200 " 400 "	6.00	5.00
400 " 600 "	3.00	4.25
600 " 800 "	3.00	4.25
Testing, over 48 hours, per day	50.00	25.00
Time to complete	30 days.	2 to 3 mos.

MACADAM ROAD.—New Canaan, Conn.—Irving Lockwood submitted the lowest bid July 10, 1900, for a gravel macadamizing on South Ave., at $1.20. The bids were rejected as being too high.

BRICK PAVING AND SIDEWALKS.—Alexandria, Ind.—The following bids were received July 13 for about 28,000 yds. of brick paving, and 8,000 yds. of sidewalk with curbing, etc.; J. S. Humphrey, Cy. Engr.:

Bids Received at Alexandria, Ind., July 13, 1900, for Brick Paving and Sidewalks.

Bidder.	Excavation, a yd.	Curbing, a ft.: 5x20" sand-stone.	Curbing, a ft.: 5x20" stritd lime-stone.	Curbing, a ft.: Parkhurst cem't and gutfr.	Paving block, a sq. yd.: Logan.	Paving block, a sq. yd.: Canton.	Paving block, a sq. yd.: Wassal.	Paving block, a sq. yd.: Medal.	Paving block, a sq. yd.: Perkins.	Paving block, a sq. yd.: Trumble.	Logan sidewlks, a yd.	Total.
Washington St.												
E. F. Cottingham, Noblesville	$0.30	$0.60	$0.62	$0.80	$1.65	$1.60	$1.65	$1.63	$1.65	$1.65	$1.15	$34,281
P. J. O'Brien, Elwood (accepted)	.35	.50	.50	.50	1.49	1.49	1.49	1.49	1.49	1.49	.90	31,425
Porter, Bowlin & Hadley, Tipton, Ind.	.25	.59	.59	.80	1.63	1.59	1.62	1.62	1.63	1.63	1.00	34,216
Canal St.												
Porter, Bowlin, & Hadley	.31	.55	.55	.75	1.63	1.55	1.57	1.57	1.57	1.57	1.08	4,368
S. J. Branden, Alexandria	.30	.50	.55	.70	1.56	1.40	1.49	1.40	1.50	1.50	1.05	4,037
Polk St.												
Porter, Bowlin & Hadley	.25	.59	.59	.75	1.58	1.55	1.57	....	1.58	1.56	1.08	4,962
North Harrison St.												
E. F. Cottingham	.30	.60	.62	...	1.65	1.60	1.65	1.63	1.65	1.65	1.15	12,780
Porter, Bowlin & Hadley	.30	.59	.59	.75	1.63	1.59	1.62	1.62	1.63	1.63	1.08	12,375

BUILDING MATERIALS.—Washington, D. C.—The following bids were received July 18, 1900, by Lieut. John S. Sewell, U. S. Engr., for furnishing various materials for the new addition to the government printing and engraving office; all bidders of Washington, unless otherwise stated: Electrical Supplies.—Bidders (1) W. Wirt Clarke & Son, Baltimore; (2) H. D. Cotton, 19th and Hanover Sts., Philadelphia; (3) Sprague Electric Co., New York; (4) Burnett Co., New York; (5) Cribben & Sexton Co., Chicago; (6) Potomac Terra Cotta Co.; (7) J. F. Buchanan & Co., Philadelphia: 1¼-in. enamel pipe, 13 ins. long, 7,600 pieces, each, (4) 65 cts., (5) 50 cts., (7) 38 cts.; 3-in. pipe, 675 pieces, (4) $1.40, (5) 88 cts., (7) $1.23; 2-in. pipe, 7¼ ft. long, 84 pieces, (4) $5.50, (5) $3.65, (7) $4.48; terra cotta conduit, 4-in. square, 2 -ft. long, 4,500 pieces, (1) 15½ cts., (6) 20 cts.; tile A, 2-ft. long, 750 pieces, (1) 25 cts., (6) 20 cts.; tile B, 750 pieces, (1) 25 cts., (6) 20 cts.; offset tile C, 150 pieces, (1) 25 cts., (6) 25 cts.; elbow tile D, 250 pieces, (1) 55 cts.; tile without dowels, 1-ft. long, 200 pieces, (1) 8 cts., (6) 10 cts.; ¾-in. heavy wall iron armored conduit, 4,000 ft., (3) 7 cts., (4) 6.9 cts., (7) 9.5 cts.; ¾-in. Greenfield flexible metalic, 28,000 ft., (3) 7.4 cts., (4) 7.16 cts., (7) 9 cts.; 1-in. same, 10,000 ft., (3) 11.9 cts., (4) 11.56 cts., (7) 14.5 cts.; lead bushings for ¾-in. conduit, a M, 4,000, (3) $5.13, (4) $5.10, (5) $6.25; 1-in. same, 1,400, (3) $6.84, (4) $6.80, (7) $8.25; complete sets of tools, 6, per set, (3) $2.80, (4) $2.50, (7) $2.95; 2 outlet boxes for 1-in. conduit and 1-in. same for ¾-in. conduit, 325 boxes, (3) 80 cts., (4) 79 cts., (7) 95 cts.; two ¾-in. outlets, 875 boxes, (3) 79.6 cts., (4) 65 cts., (7) 76 cts.; single branch porcelain cut-outs, 325, (3) 52 cts., (4) 51 cts., (7) 93 cts.; straight line porcelain cut-outs, 875, (3) 25 cts., (4) 22 cts., (7) 44 cts.; C. S. double-pole flush switches, 1,500 each, (4) $1.55; switchboxes, styles A and B, 400, (2) 90 cts., (4) $1.90, (7) 85 cts.; same, C, 250, (2) $1.66, (4) $3.50, (7) $1.09; same, D, 60, (2) $2.18, (4) $4.30, (7) $1.00; same, DD, 10, (2) $1.15, (4) $2.15, (7) $1.12; same, E, 650, (2) 12 cts., (4) 22 cts., (7) 19 cts.; same, F, 700, (2) 23 cts., (4) 80 cts., (7) 31 cts. Ornamental Terra Cotta—(1) Thompson-Armstrong Terra Cotta Co., Philadelphia; (2) Perth Amboy (N.J.) Terra Cotta Co.; (3) Chelsea Terra Cotta Co., New York: Terra cotta courses in panels, P, 750 ft., (1) $1.50, (2) $1.96, (3) $1.31; plaster bases, 3d-story, 36, (1) $10.70, (2) $16.50, (3) $11.07; pilaster capitals, 3½ ft. wide, 36, (1) $16.50, (2) $26.70, (3) $16.90; capitals, 1¾ ft. wide, 10, (1) $12.80, (2) $17, (3) $10.50; arches, A, exclusive of capitals, 8, (1) $13.50, (2) $20, (3) $12.25; arches, B, same, 10, (1) $13.50, (2) $17.50, (3) $11.50; arches, C, same, 23, (1) $13.50, (2) $17.40, (3) $11.04; arch, E, same, 1, (1) $70, (2) $90, (3) $42; double course under 7th-story windows, 1,172 ft., (1) $3.40, (2) $5.75, (3) $2.51; main cornice on exterior fronts, 1,206 ft., (1) $15.50, (2) $8.33, (3) $11.98; main cornice in court, 367 ft., (1) $7.30, (2) $7.80, (3) $21; upper cornice, including finials on exterior fronts, 1,172 ft., (1) $6, (2) $6.50, (3) $4.53; upper cornice in court, 367 ft., (1) $1.10, (2) $1.91, (3) $1.17. Brick—(1) Frederick (Md.) Brick Works, (2) Washington Hydraulic Press Brick Co.; (3) E. R. Diggs & Co.; (4) Standard Brick Co.: Select red faced hand-made bricks, not pressed, 925,000, per M, (4) $11.93; same pressed, 110,000, (4) $17.93; (no bids were received for other items under this head, or under the heads "Panels P," and "Arches"); standard light-faced bricks, 1,050,000, (3) $29; same, bull nose, 62,000, (2) $35, (3) $45; same wedged-shape, 200, (2) $100, (3) $65; same trepezoidal, 200, (2) $100, (3) $75; arches, complete, I, 3, (2) $7.37, (3) $6; same, K, 33, (2) $5.54, (3) $4.75; same, L, 176, (2) $9.26, (3) $8.75; same, M, 88, (2) $10.04, (3) $6.75; same, N, 88, (2) $11.30, (3) $9.75; same, O, single, 6, (2) $8.89, (3) $6.75; same, O, double, 81, (2) $16.66, (3) $12.50; same Q, 29, (2) $6.30, (3) $5.50; same, R, 5, (2) $6.30, (3) $5,57½; same, S, 10, (2) $4.30, (3) $4.60; common brick, 5,000,000, (1) 4,000,000 machine-made and 1,000,000 hand-made, $8.85 and $8.15, respectively; (4) $8.73. Cement, Sand, Etc.—(1) Copley Cement Co., 156 Fifth Ave., New York; (2) W. Wirt Clarke & Son, 115 Gay St., Baltimore; (3) Pfotenhauer & Nesbit, 133 Broadway, N. Y.; (4) Alpha Portland Cement Co., Easton, Pa.; (5) Lehigh Portland Cement Co., Allentown, Pa.; (6) L. E. Smoot; (7) B. Wallace & Co., 210 East Lexington St., Baltimore; (8) Atlas Portland Cement Co., New York; (9) J. H. McGill; (10) J. G. Waters & Son; (11) Brennan Construction Co.; (12) Cranford Paving Co.; (13) John B. Lord; (14) Jas. McCuen, Alexandria, Va.; (15) Chas. G. Smith & Son; (16) W. T. Gallagher & Bros.; (17) W. D. Gill & Sons, 701 Preston St., Baltimore; (18) Thos. W. Smith; (19) Thos. R. Riley; (20) Church & Stephenson, Am. Portland cement, 33,000 bbls., (1) $2.05, (2) $1.84, (4) $1.87, (5) $2.12, (8) $2.12, (10) $2.20, (11) $2.22, (12) $2.97; light, non-staining, Portland cement, 1,300 bbls., (2) $2.50, (3) $3, (7) $2.50, (9) $3.00, (11) $3.40; concrete sand, 5,300 cu yds., (6) 90 cts., (13) 90 cts.; ordinary building sand, 3,500 yds., (6) $1, (13) 90 cts.; very fine building sand, 1,200 yds., (6) $1, (13) 90 cts.; 1-in. broken stone, 2,650 yds., (12) $2.05, (14) $1.74, (15) $2.09; 2-in. same, 2,500 yds., (12) $1.89, (14) $1.74, (15) $1.94; 2-in. broken brick, 2,500 yds., (12) $1.89; 1-in. same, 5,850 yds., (12) $2.05; 1x12-in. x 16 ft. Virginia pine, 55,000 ft., (16) $16.50, (17) $14.75, (18) 15.49, (19) $14.25, (20) $15; same

in white pine, 45,000 ft., (16) $23, (17) $23.25, (18) $24.49, (19) $22.50, (20) $25; 1x6-in. x 16 ft. Virginia pine, 98,500 ft., (16) $15.75, (17) $12.75, (18) $14.49, (19) $12.75, (20) $12.50; 4x4-in. x 16 ft. same, 8,000 pieces, (16) 9.25 cts., (17) 18.8 cts., (18) $12.49 a M ft., (19) $10, (20) 20 cts.; 3x12-in. same, 198,000 ft., (16) $16, (17) $14.25, (18) $16.50, (19) $14.75, (20) $16; 2x12-in. Georgia pine, 40,000 ft., (16) $15, (17) $20, (18) $27.50, (19) $22, (20) $23. Lime—J. T. Walker's Sons, 55 cts a bbl.; Grove Lime & Coal Co., 46.5 cts.; J. M. L. Dodson, 65 cts.; Knoth & Moller, 61 cts. Cast-Iron Frames—(1) Bing Foundry & Machine Co., Philadelphia; (2) Diven Bros. & Co., Baltimore; ai bids are by No. 2, except where otherwise stated: Door and Window Frames, mark A, standard window frames, 1st story, $94.50; mark B, frames, plastered rooms, 34, $133; same, unplastered, 71, $48; Mark C (3d and 4th story), double frames, 7 ft 2½ ins. wide with pilaster, 16, $126; same, 7 ft. 1¼ ins. with same, 46, $126; same, 6 ft. 9½ ins. with same, 20, $126; same, 7 ft. 2½ ins, with same, 6, $126; same, 7 ft. 1¼ ins. with mullion, 86, $126; same, 6 ft. 9½ ins., 8, $126; same, 7 ft. 2½ ins. without screen, 1, $105. Mark D (5th story), frames, 7 ft. 2½ ins., 14; same, 7 ft. ¼-in., 66; same, 6 ft. 9½ ins., 14, $112 per frame each; same, 7 ft. 2½ ins, without screen, 1, $91. (Mark E (6th story), double frames, 93, $161; triple frame 1, $217; double frame, without screen, 1, $113. Mark F (7th story), single frames, 8, $77; double frames, 102, $168; same, without screens, 2, $140; triple frames, 2, $224; single frames, 4 ft. wide, 2, $70. Mark G2 (2d story), frames, 9 ft. 5 ins. x 3 ft., 2, $70; same, 9 ft. 5 ins. x 4 ft., 2, $77; same, 9 ft. 5 ins. x 5½ ft., 1, $84. Marks G3 and G4), frames, 7 ft. 9½ x 3 ft., 4, $63; same, 7 ft. 9½ ins. x 4 ft., 26, $70; same, 7 ft. 9½ ins. x 5 ft. 3 ins.,12, $77; same, 7 ft. 9½ ins. x 5 ft. 6 ins., 2, $77. Mark G5 (5th story), frames, 8 ft. 5½ ins. x 3 ft., 2, $70; same, 8 ft. 5½ x 4 ft., 14, $77; same, 8 ft. 5½ x 5 ft. 3 ins., 6, and same, 5 ft. 6 ins wide, 1, $84 each. Mark G6 (6th story), frames 7 ft. 7½ ins. x 3 ft., 2, $63; same, 7 ft. 7½ ins. x 4 ft., 14, $70; same, 7 ft. 7½ ins. x 5 ft. 3 ins., 6; and frame, 7 ft. 7½ ins. x 5 ft. 6 ins, 1, each $77. frames for window in coal room, (1-sty) mark H, 6, $21; same, in G St. stairway, 2, $28; same for elevator freight shaft, mark I, 14, $42; frame doors 3 side stairway, mark K, 3, $70; frames for jacks and alley doors, etc., 4, 7 ft. wide, $70; 1 4 ft. wide, $63; windows in 3d story over power-house, 7 frames with mullions, 2 without, $56 and $42, respectively; 1 frame for large elevator door in court, $210. Windows in main stairway: 2d story, $2.45; 3d story, $6.36; 4th story, $3.36; 5th story, $2.80; 6th story, $3.36; 7th story—1 triple frame $3.50, 2 single $119; circular windows in loft, $9; under driveway, 2d story, $224; toilet room (east end of court), $21. Standard 4x4 ft. door. Frames, plastered wall with transom, 30, $84; without plaster, 20, $70; without transom, $63; frame for width of 5 ft. 3 ins., no plaster, with transom, 1, $84; frames, doors in three-side stairway walls, 21, $77; same, main stairway, 12, $70. Large Elevator Court—Frame, 9 ft. 5 ins. high, $70; frames, 7 ft. 9 ins. high, 2, $63; frame, 8 ft. 4½ ins. high, $66.50; 7 ft. 7½ ins. high, $63; baseboard, 20,500 ft., 82 cts.; column guards, 168 for 15-in. columns, $87; 110 for 8-in. columns, $75; ventilator frames, 27 sets, $8. corner wheel-guards, 18, (2) $28, (1) $25; guards for face of wall. 40, (1) $15, (2) $19; corner guards for vent shaft, 316, $375.—Exchange.

PAVING BLOCK.—Troy, N. Y.—The board of contract and supply on July 17, 1900, awarded the contract for furnishing 7,000 Metropolitan paving block to Wm. Fitzsimons at $29 a 1,000.

DREDGING.—Detroit, Mich.—The following bids were received June 30, 1900, by the U. S. Engineer, Detroit, for dredging in the (1) Rouge River and (2) in the Black River at Port Huron, Mich.: W. A. McGillis & Co., Cleveland, (1) 11 cts.; James Rooney, Toledo, O., (1) 12 cts.; Geo. Rockerie, Detroit, Mich., (1) 13½ cts.; Detroit Dredging Co., Ltd., Detroit, (1) 22 cts., (2) 20 cts.; Edmond Hall, Detroit, Mich., (2) 14 cts.

CUT STONE.—Washington, D. C.—The following bids were received by Lieut. J. S. Sewell, U. S. Engr., July 18, 1900, for furnishing cut stone for the addition to the government printing and engraving office:

Quantities.	Seneca Stone Co., 3 E. Lexington St., Baltimore.	Connecticut State Brownstone Co., Portland, Conn.	J. P. Falt & Co., Springfield, Mass.	Acker & Co., Washington.
Wndws: 6-St-1(No.40)	$114.15	$128.00	$91.00	$181.60
6-St-2. .....(No. 1)	252.90	208.00	162.10	170.60
6-St-3. .....(No. 1)	202.39	202.00	150.20	170.60
Sills: S-1, 4 ft.... 8	17.41	15.00	14.39	23.95
S-2, 6 ft. 9½ ins. 8	11.22	26.00	9.90	14.15
S-2, 7 " 2½ " 14	11.86	27.00	9.53	14.49
S-2, 7 " 0¼ " 86	11.48	27.00	9.31	14.47
S-3, 6 " 9½ " 20	...	12.00	11.20	10.95
S-3, 7 " 2½ " 16	...	13.00	11.70	20.95
S-3, 7 " 0¼ " 46	...	13.00	11.47	10.78
S-4, 7 " 2½ " 7	30.73	29.00	24.60	65.60
S-5, 5 " 3 " 114	14.43	12.00	11.32	16.50
S-5, 3 " 2	8.73	7.00	6.80	9.85
S-5, 5 " 6 ins. 1	15.73	13.00	11.85	17.20
S-6, 1 " 10 " 7	4.85	5.00	3.76	5.30
S-7, 7 " 2	15.81	13.00	12.63	18.68
S-7, 7 " 4 ins. 1	16.50	14.00	12.95	19.48
S-8, 7 " 2	33.68	18.00	26.65	39.10
S-8, 4 " 1	19.71	11.00	15.75	22.95
S-9, 9 " 1	22.46	13.00	18.00	22.65
S-10, 5 ft. 2	2.75	5.00	4.40	5.85
S-11, 3 " 2	8.71	5.00	6.80	9.80
S-11, 5 " 6 ins. 1	15.13	11.00	11.85	9.80
S-12, 4 " 5	10.54	6.00	8.30	ft.95
S-12, 3 " 2	6.20	5.00	6.45	12.35
S-12, 5 " 3 ins. 5	13.52	8.00	10.73	9.50
S-12, 5 " 6 ins. 1	14.21	8.00	11.27	14.45
S-13, 7 " 10	12.60	8.00	9.53	16.65
S-14, 4 " 18	16.04	9.00	11.75	16.25
S-14, 5 " 3 ins. 10	19.25	11.00	15.00	17.10
S-14, 3 " 4	11.46	8.00	9.20	21.40
S-14, 5 " 6 ins. 2	20.17	12.00	16.00	13.10
S-15, 6 " 9⅝" 4	10.08	7.00	8.50	22.95
S-12, 7 " ¼ " 43	10.31	7.00	8.60	11.95
S-16, 4 " 4	16.04	9.00	13.00	12.30
S-17, 2 " 14	3.21	4.00	2.50	21.95
S-18A, 3½ ft. .. 54	8.02	7.00	9.80	14.15
S-18B, 3½ " .. 54	8.02	7.00	9.80	14.15
S-18C, 1½ " .. 54	1.36	1.00	1.40	2.95
S-19, 2½ ft. 6	2.75	3.00	2.10	2.75
S-20, 4 " 8	13.75	8.00	29.00	15.29
S-20, 5¼ " 5	17.65	10.00	14.00	19.95
S-20, 3 " 2	10.50	6.00	9.20	12.20
S-20, 5½ " 1	18.33	11.00	14.70	17.85
S-F, 5¼ " 34	23.60	8.00	17.60	21.15
S-K, 5¼ " 45	22.54	10.00	17.20	25.95
S-M,7 ft. 1¼ ins 42	107.94	26.00	77.00	120.00
S-N, 7 ft. ¼-in. 32	12.60	26.00	8.80	15.60
S-N, 6 ft. 9½ ins 10	11.69	25.00	8.80	14.85
S-O, 3½ ft..... 225	15.35	5.00	9.00	13.75
S-O, 6 ft..... 2	19.02	9.00	14.60	21.85
S-O, 4 ft..... 6	13.07	6.00	10.42	14.95

Quantities.	Seneca Stone Co., 3 E. Lexington St., Baltimore.	Connecticut State Brownstone Co., Portland, Conn.	J. P. Falt & Co., Springfield, Mass.	Acker & Co., Washington.
Lintels: L-1, 4 ft. 36	31.40	13.00	22.25	26.70
L-1, 5 ft. 3 ins.. 15	39.65	17.00	28.10	34.65
L-1, 3 " 6	24.75	10.00	17.55	21.65
L-1, 5 " 6 ins... 3	41.25	17.00	29.25	26.15
L-2, 7 " 3	53.85	22.00	37.85	48.35
L-2, 7 " 4 ins... 1	55.68	23.00	39.50	50.40
L-2, 4 " 1	32.77	14.00	23.30	29.50
L-2, 7 " 1	78.13	23.00	37.65	25.00
L-2, 5 " 3 ins... 1	26.21	17.00	29.25	37.25
L-2, 2 " 1	13.75	7.00	13.50	17.00
L-3, 6 " 9½ ins. 28	19.92	13.00	15.10	19.80
L-3, 7 " 2½ " 30	21.08	13.00	15.90	20.70
L-3, 7 " 0¼ " 132	20.63	13.00	15.45	20.40
L-4, 9 " 1	55.92	23.00	39.50	48.65
L-5, 5 " 3 ins... 114	29.33	17.00	20.78	26.00
L-5, 3 " 2	8.33	8.00	13.00	16.20
L-5, 5 " 6 ins... 1	30.48	18.00	21.60	26.95
L-6, 5 " 2	14.90	9.00	8.55	15.80
L-7, 4 " 12	28.65	13.00	20.20	25.85
L-7, 5 " 3 ins... 5	36.21	17.00	25.67	32.70
L-7, 3 " 2	22.46	11.00	11.90	20.45
L-7, 5 " 6 ins... 1	37.58	18.00	26.60	34.00
L-8A, 3 ft. 7 ins. 54	14.90	12.00	20.20	25.50
L-8B, 3 " 7 " 52	14.90	12.00	20.20	25.50
L-9, 7 ft. 10	24.52	19.00	17.80	23.25
L-G, 5 ft. 3 ins . 34	32.77	15.00	27.75	34.50
Miscellaneous:				
Keystones: 2d story	36.00	35.00	21.25	34.75
Over driveway ...	40.00	41.00	28.50	39.00
N. Capitol St. entrance:				
Stnwrk, 6 sty windw	252.99	180.00	151.20	270.60
5th story	38.00	44.00	31.00	41.00
4th story	1,026.67	450.00	167.00	998.00
3d story	32.78	480.00	590.62	358.00
All, below 3d story.	7,247.13	8,218.00	6,423.56	7,756.50
Extra granite columns	250.00	260.00	425.00	345.00
Sandstone, a cu. ft..	2.75	2.50	2.15	2.50
For all stonework:				
Entrance, power h..	686.53	278.00	506.00	725.00
Court yard	267.23	69.00	158.85	98.00
For G St. entrance.	1,287.69	1,329.00	979.65	948.00
Entrance near ct.yd.	1,047.52	1,120.00	789.25	915.00
Extra pieces, cu. ft..	2.75	2.50	2.15	2.95
Course A	4.50	4.00	4.50	5.45
" B	3.00	2.78	3.25	3.69
" C	4.83	4.45	5.00	5.85
" D	2.66	2.32	3.00	3.05
" E	5.33	2.73	3.00	3.45
" F	2.29	1.05	3.00	1.65
" G	3.00	2.77	4.50	3.68
" H	11.00	5.63	6.00	8.25
" I	2.50	1.30	2.00	1.68
" K	2.29	2.00	3.10	2.93
" L	12.38	6.00	5.25	8.95
" M	14.21	10.00	8.10	14.50
" N	3.75	2.85	1.50	1.70
" O	4.55	.90	2.75	1.50
" P	5.33	4.50	5.00	3.95

BRIDGE.—New York, N. Y.—The following bids were received July 23 for a bridge over Newtown Creek, at Grand St., Brooklyn and Queens; 1, Bernard Rolf, 39 Cortlandt St., New York, awarded contract at $173,380; 2, American Bridge Co., 100 Broadway, $195,710:

	1.	2.
Removing and storing old draw span, etc...	$5,000	$400
Abutments, retaining walls and center pier, with their piles and foundation..	8,000	3,500
Fender, sheet pile protections, cluster piles and bridge house	3,000	2,800
Dredging, excavation and filling	11,000	18,000
Westerly abutments, etc.:		
Spruce piles, driven and cut, measured in place, per lin. ft., 9,000 ft.....	.28	.75
White oak piles, driven and cut, 1,000 ft.	.40	.44
Gravel filling between piles, 253 yds.....	.90	1.35
Rip-rap filling around foundation, 200 yds.	.45	1.35
Cofferdam, and maintaining, pumping and removing same.....	9,000	10,900
Concrete in lower 8 ft. of westerly abutment, etc., place measuremt, 670 yds.	7.00	7.50
Spruce timber, per 1,000 ft., B. M., measured in place, 3,500 ft.....	33.00	30.00
Blue limestone masonry in facing of walls, per cu. yd., 400 yds.....	12.00	15.00
Concrete backing behind facing stone of walls and in surface wall foundation, 480 yds.....	7.00	7.00
Blue limestone backing or spalling behind facing stone of walls, 680 yds.....	10.00	7.50
Cut granite in copings, backwall, pedestals and caps, cut and finished, 65 cu. yds	60.00	54.00
North River bluestone for steps, finished, measured in place, 100 cu. yds.....	2.00	2.00
Bronze railing, including brackets, rosettes, etc., in place, 10 lin. ft.....	20.00	45.00
Yellow pine pine timber, platform,1,300 ft.	35.00	40.00
Shelter house for protection of electric apparatus, complete.....	1,008	300.00
Rip-rap, with hand laid slope for backing of walls,measured in place, 310 cu.yds.	.60	1.50
Iron in bolts, spikes, etc., 300 lbs.....	.03	.05
Fender:		
Crib logs, place measuremt, 19,000 lin. ft.	.10	.25
Rip-rap, measured in place, 1,850 cu.yds.	.45	1.50
Half-round white oak fenders, measured in place, per lin. ft., 310 ft.....	.12	.30
Wrought iron in armature plates,7,000 lbs	.045	.08
White oak piles, driven and cut, measured in place, 300 lin. ft.....	.30	.08
White oak, per 1,000 ft., B. M., measured in place, 1,800 lin. ft.....	55.00	.44
Yellow pine piles, driven and cut, measured in place, per lin ft., 23,000 ft.....	.18	55.00
Yellow pine, per 1,000 ft., B. M., measured in place, 126,000 lin. ft.....	30.00	.26
Iron bolts, spikes, etc., 37,000 lbs.....	.025	40.00
Filling and paving:		
Filling from present street level to raised leevl, 1,600 cu. yds.....	.20	.05
Bluestone curb, with concrete foundation, for a distance of 100 ft. from back of abutments, 400 lin. ft.....	.50	.40
Concrete in bed for pavement, measured in place, 50 cu. yds.....	7.00	.65
Granite paving, with gravel and asphalt filling, 260 sq .yds.....	2.00	5.00
Sand filling under new paving and flagging, per cu. ft., 30 cu. yds.	.75	2.00
Bluestone flagging on foot walks for a distance of 100 ft. from back of abutments, measured in place, 345 sq. yds.	2.00	1.50
Turntable:		
Rolled iron and steel, painted and in place, 67,000 lbs.....	.0[illegible]	1.80
All specified castings, lead plates, shims, etc., painted and in place, 23,000 lbs..	.7[illegible]	.05
Wrought-iron and steel bolts, rods, etc., painted and in place, 700 lbs.....	.6[illegible]	.06
Expansion bolts (Ahlstrom or Evans bolts, 1¼ ins. diameter, painted, 8, each...	1.00	.05
Cast-iron, painted, per lb., 24,000 lbs.....	.0[illegible]	.50
Building and erecting new draw span:		
Rolled iron and steel, painted, 360,000 lbs.	.0[illegible]	.03
Yellow pine, measured in place, a 1,000 ft., B. M., 17,000 ft.....	35.00	.04
Creosoted yellow pine, measured in place, per 1,000 ft., B. M., 25,000 ft.....	60.00	40.00
Iron in bolts, spikes, etc., 2,900 lbs.....	.03	50.00
Furnishing in place lamps, handrailing, gates, etc.:		
Lampposts with fastening, connections, wiring and lifting apparatus, 2, each	30.00	16.00
Brackets with fastening, connections, wiring and lifting apparatus, painted and in place, 2, each.....	30.00	16.00
Handrailing, including standards and posts on draw span and approaches, painted, etc., 843 lin. ft.....	3.00	5.00
Bronze tablets in place, 2 each.....	50.00	2.25
Gates in complete working order, painted, etc., 2 pairs, per pair.....	200.00	125.00
Furnishing in place operating machinery:		
Machinery, hangers, shafting, etc., painted, etc., 3,000 lbs.....	.08	.04
Steel castings, painted, etc., 15,000 lbs....	.10	.06
Expansion bolts (Ahlstrom or Evans), painted, etc, per piece, 30.....	1.00	.50
Iron bolts and fastenings, 1,650 lbs.....	.03	.04
Rolled iron or steel for aprons and supports, painted, etc., 12,000 lbs.....	.05	.04
Wrought-iron bridge keys, including white oak handles, complete, per piece, 2....	10.00	7.00
Self-centering bridge latch, with springs, shafts, frames, bearings and fastenings, made of cast steel, and for a drop latch, complete and in place, 4,000 lbs.	.10	.05
Engineer's office, including boat	250.00	400.00
Material and labor and building a new bridgekeeper's house.....	500.00	1,800

The following are the bids for the easterly abutment where they differ from those for the westerly abutment: Spruce piles, etc., 15,000 ft., Am. B. Co., 65 cts.; white oak piles, etc., 1,500 ft.; gravel filling between piles, 515 yds.; rip-rap filling, 400 yds; copperdam, etc., Rolf, $12,000; Am. B. Co., $15,800. Spruce timber, etc., 50,000 ft.; blue limestone, etc., 530 yds.; concrete backing, etc., 430 yds.; blue limestone, etc., 1,320 yds.; cut granite, etc., 105 yds.; yellow pine, 5,000 ft.; Am. B. Co., $40. Rip-rap, etc., 365 yds.; iron spikes, etc., 6,000 lbs.; Am. B. Co., 3.5 cts. Center pier: Spruce piles, etc., 3,500 ft.; white oak piles, etc., 500 ft.; spruce in grillage, 42,000 ft.; Am. B. Co., $40. Caisson, maintaining, pumping and removing same, Rolf $5,000; Am. B. Co., $6,800. Concrete laid under 11.83 ft. below mean high water, 250 yds.; blue limestone masonry, 110 yds.; concrete backing and hearting of pier, 240 yds.; cut granite, etc., 52 yds.; iron spikes, etc., 1,300 lbs.

FIRE ENGINES.—Cleveland, O.—The following bids were received July 14, 1900, for furnishing seven new fire engines: D. Connelly, representing the Cleveland Steam Boiler Works, first size, $4,220; second size, $4,050; third size, $3,825; the Manchester Locomotive Works, Manchester, N. H.; the American Fire Engine Co., Seneca Falls, N. Y., and Thos. Manning, Jr., & Co., Cleveland, are said to have bid the same, viz.: first size, $4,700; second size, $4,500; third size, $4,200. The three latter companies put in exactly the same bids at the last opening for these engines, on June 11, the bids rejected. H. H. Hyman, Dir.

BRICK PAVING.—Corning, N. Y.—The following bids were received July 21, 1900, for about 5,400 yds. of brick paving; (1) 5,400 yds. of brick pavement, (2) 4,000 ft. of curbing, (3) 2,000 yds. of excavating, (4) 4,000 ft. of drain-tile; Geo. H. Marriott, Secy. Com.:

	1.	2.	3.	4.
Costello & Nagle, Elmira.....	$1.59	$0.67	$0.37	$0.07
Brick, Terra Cotta & Sup'ly Co*	1.84	.70	.39	.12½
W. H. Shea, Corning.	2.24	.55	.38	.07

*Corning.

PUMPING ENGINE.—Millersburg, O.—The following bids were received July 20, 1900, for furnishing a 750,000-gallon pumping engine, f. o. b. Millersburg; E. Thompson, Supt. Water-Works: John H. McGowan, Cincinnati, O., 11 x 17 x 8½ x 18-in. stroke, $1,175 (accepted); Buffalo Steam Pump Co., North Tonawanda, N. Y., 12 x 18½ x 9 x 12-in., $1,486; Laidlaw-Dunn-Gordon Co., Cincinnati, 12 x 18½ x 8½ x 18-in., $1,497; Deane Steam Pump Co., Holyoke, Mass., condensing 8 x 16 x 8¼ x 18-in., $2,050; Stilwell-Bierce & Smith-Vaile, Dayton, O., 12 x 18 x 8¼ x 18-in., $1,485; Snider-Huges Co., Cleveland, O., 12 x 18 x 8½ x 18-in., $1,690.

BRICK PAVING.—Sheldon, Conn.—C. W. Blakeslee & Son, New Haven, Conn., submitted the only bid July 10, 1900, for 800 yds. of brick paving at $2.55. J. A. Wilmot, Clk.

ASPHALT PAVING.—Elmira, N. Y.—The Barber Asphalt Paving Co., New York, has been awarded the contract at $2.40 a sq. yd. for about 10,000 yds. of asphalt paving on old stone foundations; work must be begun by Aug. 1, and completed by Oct. 1; new curbing will cost 58 cts. a lin. ft., and resetting old, 18 cts.

PIPE SEWERS.—Tomahawk, Wis.—The contract for laying 20-in. pipe sewers has been let to Miller & Krauss, of Wausau, Wis., at 69 cts. a ft., the city to furnish the pipe. Jas. Kelly, Cy. Clk.

INDUSTRIAL NOTES.

THE CHICAGO HOUSE-WRECKING CO., 35th and Iron Sts., Chicago, have recently purchased from Armour & Co., 70 boilers of different makes, of the following sizes: 48 boilers, 60x18; 12, 60x16; 12, 54x16. The Chicago House-Wrecking Co. are preparing to build a machinery shed, 200x360 ft. They are overhauling this department, and will make special efforts in this branch of their business this fall. They have published a large catalogue, which they will send on application.

NEW COMPANIES.—South Side Foundry & Machine Works, Charleston, W. Va.; $500,000; W. T. Thayer, W. Mollohan.

Baltimore Construction Co., Baltimore, Md.; $30,000; constructing canals, etc.; A. H. Wehr, J. G. McDonald, Wm. C. Floyd.

Mathews Steam Boiler Works Co., South Bend, Ind.; $5,000; J. Mathews, F. Mathews, E. Burkett.

Atlantis Lake Asphalt Co., Philadelphia, Pa.; $5,000,000; W. G. Abbott, I. Prowattain, F. B. Handy, W. W. McKee.

The New Advertisements on Page XXI ("Wants") and Pages XXII--XXIII ("For Sale") May Interest You.

THEY GROW——Possibly They Bring Results——TRY THEM

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